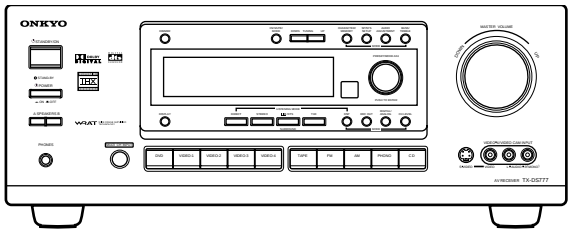
ONKYO®

A / V Receiver

TX-DS777
TX-DS676

Instruction Manual



Thank you for purchasing the Onkyo Audio Video Control Receiver.
Please read this manual thoroughly before making connections and turning on the power.
Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new Audio Video Control Receiver.
Please retain this manual for future reference.

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WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Important Safeguards

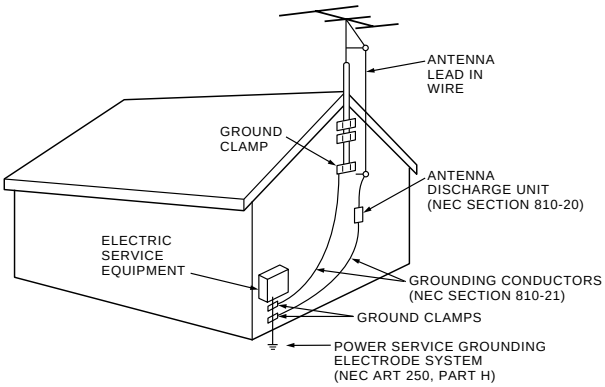
1. **Read Instructions** – All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** – The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** – All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** – All operating and use instructions should be followed.
5. **Water and Moisture** – The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
6. **Carts and Stands** – The appliance should be used only with a cart or stand that is recommended by the manufacturer.

PORTABLE CART WARNING

S3125A

6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
7. **Wall or Ceiling Mounting** – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or if placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings, there should be free space of at least 20 cm (8 in.) and an opening behind the appliance.
9. **Heat** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources** – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. **Polarization** – If the appliance is provided with a polarized plug having one blade wider than the other, please read the following information:
    The polarization of the plug is a safety feature. The polarized plug will only fit the outlet one way. If the plug does not fit fully into the outlet, try reversing it. If there is still trouble, the user should seek the services of a qualified electrician. Under no circumstances should the user attempt to defeat the polarization of the plug.
12. **Power-Cord Protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, especially near plugs, convenience receptacles, and the point where they exit from the appliance.
13. **Cleaning** – The appliance should be cleaned only as recommended by the manufacturer.
14. **Power Lines** – An outdoor antenna should be located away from power lines.
15. **Nonuse Periods** – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
16. **Object and Liquid Entry** – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
17. **Damage Requiring Service** – The appliance should be serviced by qualified service personnel when:
    A. The power-supply cord or the plug has been damaged; or
    B. Objects have fallen, or liquid has been spilled into the appliance; or
    C. The appliance has been exposed to rain; or
    D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
    E. The appliance has been dropped, or the enclosure damaged.
18. **Servicing** – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
19. **Outdoor Antenna Grounding** – If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure 1.

FIGURE 1:
EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

NEC – NATIONAL ELECTRICAL CODE

S2898A

Precautions

1. Warranty Claim
You can find the serial number on the rear panel of this unit. In case of warranty claim, please report this number.

2. Recording Copyright
Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder.

3. AC Fuse
The fuse is located inside the chassis and is not user-serviceable. If power does not come on, contact your Onkyo authorized service station.

4. Care
From time to time you should wipe the front and rear panels and the cabinet with a soft cloth. For heavier dirt, dampen a soft cloth in a weak solution of mild detergent and water, wring it out dry, and wipe off the dirt. Following this, dry immediately with a clean cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since these could damage the finish or remove the panel lettering.

5. Power
WARNING
BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., AC 230 V, 50 Hz or AC 120 V, 60 Hz) written on the rear panel.

Worldwide models are equipped with a voltage selector to conform to local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before plugging in the unit.

For British model
Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

IMPORTANT
The wires in the mains lead are coloured in accordance with the following code:
Blue : Neutral
Brown : Live
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IMPORTANT
A 5 amp fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark or the BSI mark on the body of the fuse.
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.
If in any doubt, please consult a qualified electrician.

For U.S. model
Note to CATV system installer:
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC, ANSI/NFPA 70, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

FCC Information for User
CAUTION:
The user changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For Canadian model
CAUTION: THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSION FROM DIGITAL APPARATUS SET OUT IN THE RADIO INTERFERENCE REGULATIONS OF THE CANADIAN DEPARTMENT OF COMMUNICATIONS.
For models having a power cord with a polarized plug:
CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Modele pour les Canadien
ATTENTION: L'INTERFÉRENCE RADIO ÉLECTRIQUE GÉNÉRÉE PAR CET APPAREIL NUMÉRIQUE DE TYPE B NE DÉPASSE PAS LES LIMITES ÉNONCÉES DANS LE RÈGLEMENT SUR LES PERTURBATIONS RADIO ÉLECTRIQUES, SECTION APPAREIL NUMÉRIQUE, DU MINISTÈRE DES COMMUNICATIONS.

Sur les modèles dont la fiche est polarisée:
ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

Declaration of Conformity

We, ONKYO EUROPE
ELECTRONICS GmbH
INDUSTRIESTRASSE 20
82110 GERMERING,
GERMANY

declare in own responsibility, that the ONKYO product described in this instruction manual is in compliance with the corresponding technical standards such as EN60065, EN55013, EN55020 and EN61000-3-2, -3-3 (or EN60555-2, -3).

GERMERING, GERMANY

K.OTSU

ONKYO EUROPE ELECTRONICS GmbH

Features

Key Features

- **THX select (TX-DS777 only)**
- **DTS* decorder built-in**
- **Dolby** digital decoder built-in**
- **Linear PCM 96 kHz/24-bit D/A converter**
- **5.1 multichannel inputs**
- **4 assignable digital inputs (2-coaxial, 2-optical)**
- **Optical digital output (TX-DS777 only)**
- **Onscreen display**
- **Main-in jacks for front left & right channels (TX-DS777 only)**
- **Pre outs for all channels**
- **Banana-plug posts for all channels**
- **Aluminum volume control**
- **New user-friendly smart scan**
- **New backlit learning remote with joy stick**
- **3 audio and 5 AV inputs (all S-video)**
- **Cinema Re-EQ*****

Amplifier Design

- **5-channel amplification**
- **Real high-current, 6 Ω low-impedance drive**
- **DVD-audio capability**
- **Wide Range amplifier technology**
- **Discrete output stage circuits for all channels**
- **High-quality extruded heat sink**
- **Oversized power transformer**
- **(TX-DS777)**

  105 W x 5 (8 Ω 20 Hz-20 kHz 0.08% THD FTC)

  135 W x 5 (6 Ω 1 kHz 0.1% THD FTC)
- **(TX-DS676)**

  85 W x 5 (8 Ω 20 Hz-20 kHz 0.08% THD FTC)

  110 W x 5 (6 Ω 1 kHz 0.1% THD FTC)

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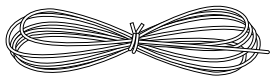
*** Re-Equalization and the "Re-EQ" logo are trademarks of Lucasfilm Ltd. Manufactured under license of Lucasfilm Ltd.

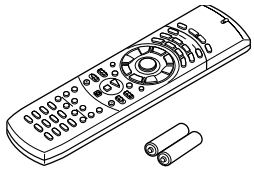
Supplied accessories

Check that the following accessories are supplied with this unit.

AM loop antenna x 1

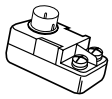


FM antenna x 1
(Connector shape may vary depending on where the unit is purchased.)



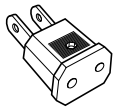
Remote controller (RC-392M) x1
Batteries (size AA or UM-3) x 2

(For other than North American and European models)



75/300 ohm antenna adapter x 1

(For worldwide model)

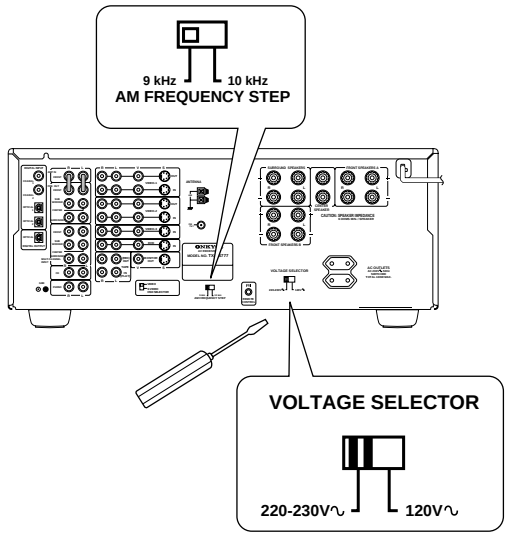


Conversion plug x1
(Shape may vary depending on where the unit is purchased.)

Memory Preservation
This unit does not require memory preservation batteries. A built-in memory power back-up system preserves the contents of the memory during power failures and even when the POWER switch is set to off. The POWER switch must be set to on in order to charge the back-up system.
The memory preservation period after the unit has been turned off varies depending on climate and placement of the unit. On the average, memory contents are protected over a period of a few weeks after the last time the unit has been turned off . This period is shorter when the unit is exposed to a highly humid climate.

THX Select
Before any home theatre component can be THX Select certified, it must pass a rigorous series of quality and performance tests. Only then can a product feature the THX Select logo, which is your guarantee that the Home Theatre products you purchase will give you superb performance for many years to come. THX Select requirements define hundreds of parameters, including power amplifier performance, and pre-amplifier performance and operation for both digital and analog domains. THX Select receivers also features proprietary THX technologies (e.g. THX Mode, see page 34) which accurately translate film soundtracks for home theater playback.

Before operating this unit



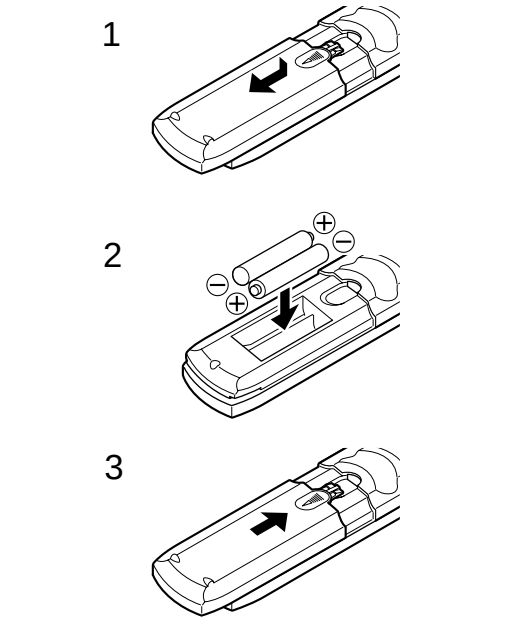
Setting the AM tuning step frequency (Worldwide models only)

Worldwide models are equipped with a switch that controls the AM band tuning steps. Please set this switch to match the AM band tuning step frequency in your area.
U.S.A. and Canada : 10 kHz
Other areas : 9 kHz

Setting the Voltage selector (Worldwide models only)

Worldwide models are equipped with a voltage selector to conform with local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before plugging in the unit.

1. Determine the proper voltage for your area: 220-230 V or 120 V.
2. If the preset voltage is not correct for your area, insert a screwdriver into the groove in the switch. Slide the switch all the way to the right (120 V) or to the left (220-230 V), whichever is appropriate.



Installing the remote controller batteries

1. Remove the battery compartment cover by pressing the tab and lifting up the cover.
2. Insert two AA (R6- or UM-3)-size batteries into the battery compartment. Carefully follow the polarity diagram (positive (+) and negative (–) symbols) inside the battery compartment.
3. After batteries are installed and seated correctly, replace the compartment cover.

Notes

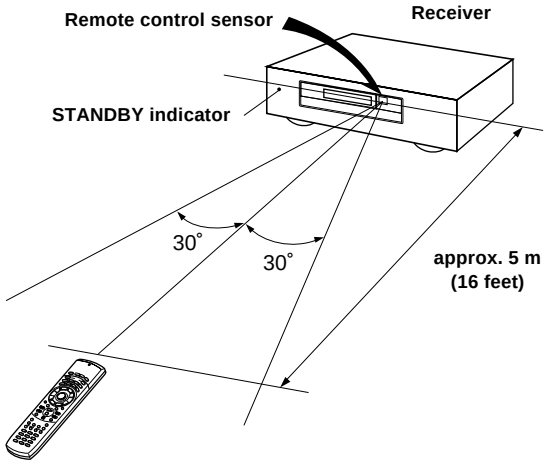
- Do not mix new batteries with old batteries or different kinds of batteries.
- To avoid corrosion, remove the batteries if the remote controller is not to be used for a long time.
- Remove dead batteries immediately to avoid damage from corrosion. If the remote controller doesn't operate smoothly, replace both the batteries at the same time.
- The life of the batteries supplied is about six months but this will vary depending on usage.

Using the remote controller

Point the remote controller toward the remote control sensor.
The STANDBY indicator lights up when the unit receives a signal from the remote controller.

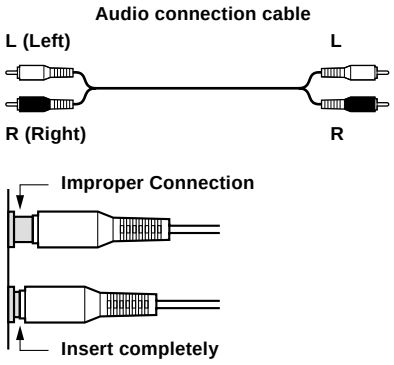
Notes

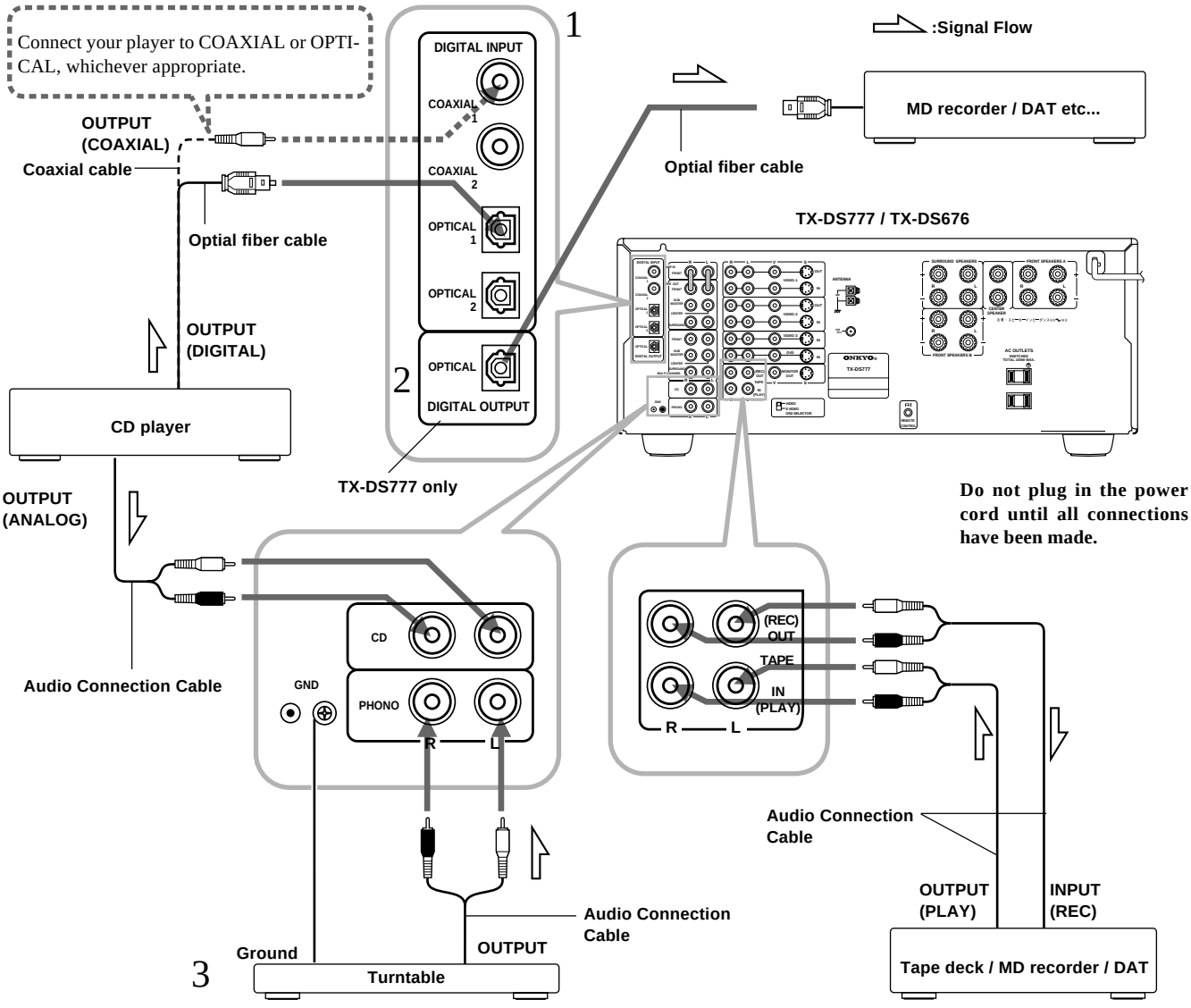
- Place the unit away from strong light such as direct sunlight or inverted fluorescent light which can prevent proper operation of the remote controller.
- Using another remote controller of the same type in the same room or using the unit near equipment which uses infrared rays may cause operational interference.
- Do not put any object such as a book on the remote controller. The buttons of the remote controller may be pressed by mistake and drain the batteries.
- Make sure the audio rack doors do not have colored glass. Placing the unit behind such doors may prevent proper remote controller operation.
- If there is any obstacle between the remote controller and the remote control sensor, the remote controller will not operate.



Audio equipment connections

- **Do not piug in the power cord until all connections have been made.**
- **On each pair of input jacks, a red connector (marked R) corresponds to the right channel, and a white connector (marked L) to the left channel.**
- **Please refer to the instruction manual of each component when making any connections.**
- **Insert the plugs and connectors securely. Remember that improper connection can result in noise, poor performance, or damage to the equipment.**
- **Do not bind audio connection calls with power cords and speaker cables. Doing so may degrade sound quality.**





Audio equipment connections

1. DIGITAL INPUT connectors

- If your CD player has a digital output connector, connect it to a proper DIGITAL INPUT connector for clear and dynamic sound play.
- This unit provides four digital input connectors to connect CD players, MD recorders, DAT decks, etc. having a digital output connector. When using these connectors, connect the unit also via the audio connection cables. You should also note that the signals you can record are analog signals only.
- The digital inputs, COAXIAL 1, 2 and OPTICAL 1, 2can be assigned to individual input selector buttons, so when an input selector button is pressed, the assigned digital input is used instead of the corresponding analog input. (See page 23,29.)

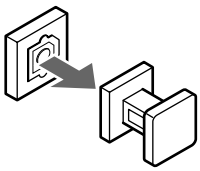
2. OPTICAL DIGITAL OUTPUT connector (TX-DS777 only)

If you have a digital recorder, such as an MD recorder, DAT, and CD-R (Compact Disc Recorder), connect the recorder's digital input connector to this connector. In this case, always use commercially available optical digital audio cables.

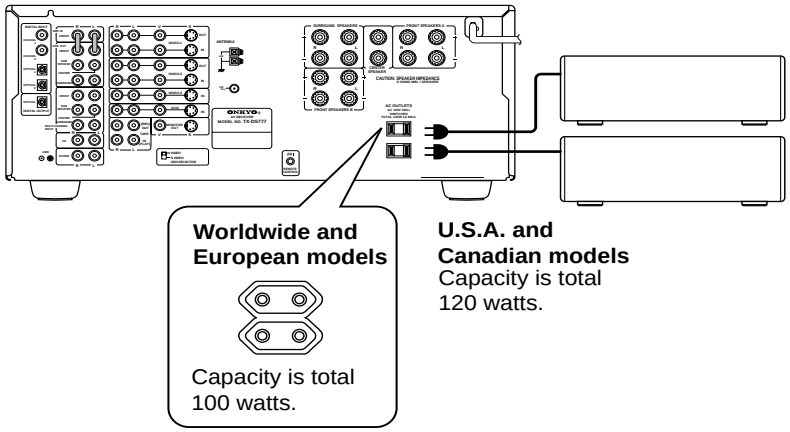
3. Turntable

This receiver is designed for use with turntables using moving magnet cartridges.
Connect a ground (or earth) wire to GND terminal.
With some players, connecting a ground wire results in larger noise. If so, do not connect any ground wire.

Optical digital connector



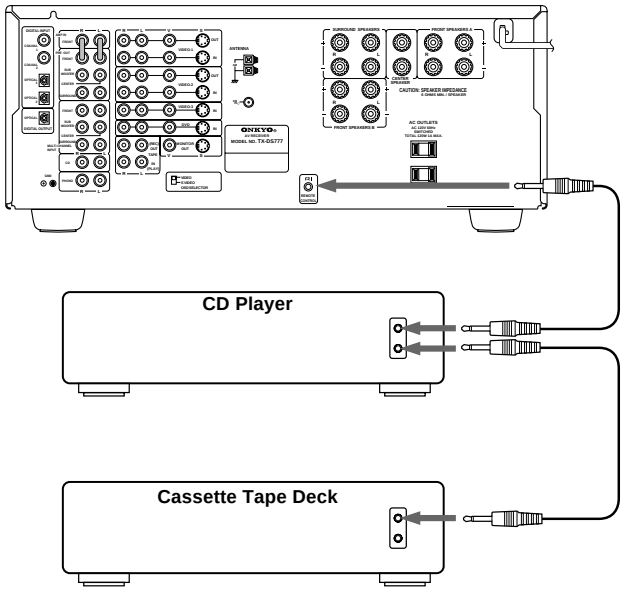
Remove the protective caps before making connections. When not in use, be sure to replace them.



AC outlet connection

You can connect the power cord from another audio device to the rear of this receiver.
Since the AC outlets on the unit are a SWITCHED type outlet, you can use the STANDBY/ON button, to turn on/off the power to both this receiver and the connected audio devices.
First turn the POWER switch ON (⏻).
The shape, number, and total capacity of the AC outlets may differ depending on the area of purchase. Make sure that the total capacity of other components connected to this unit does not exceed the capacity that is printed on the rear panel.

TX-DS777/TX-DS676



Connections for remote control (RI)

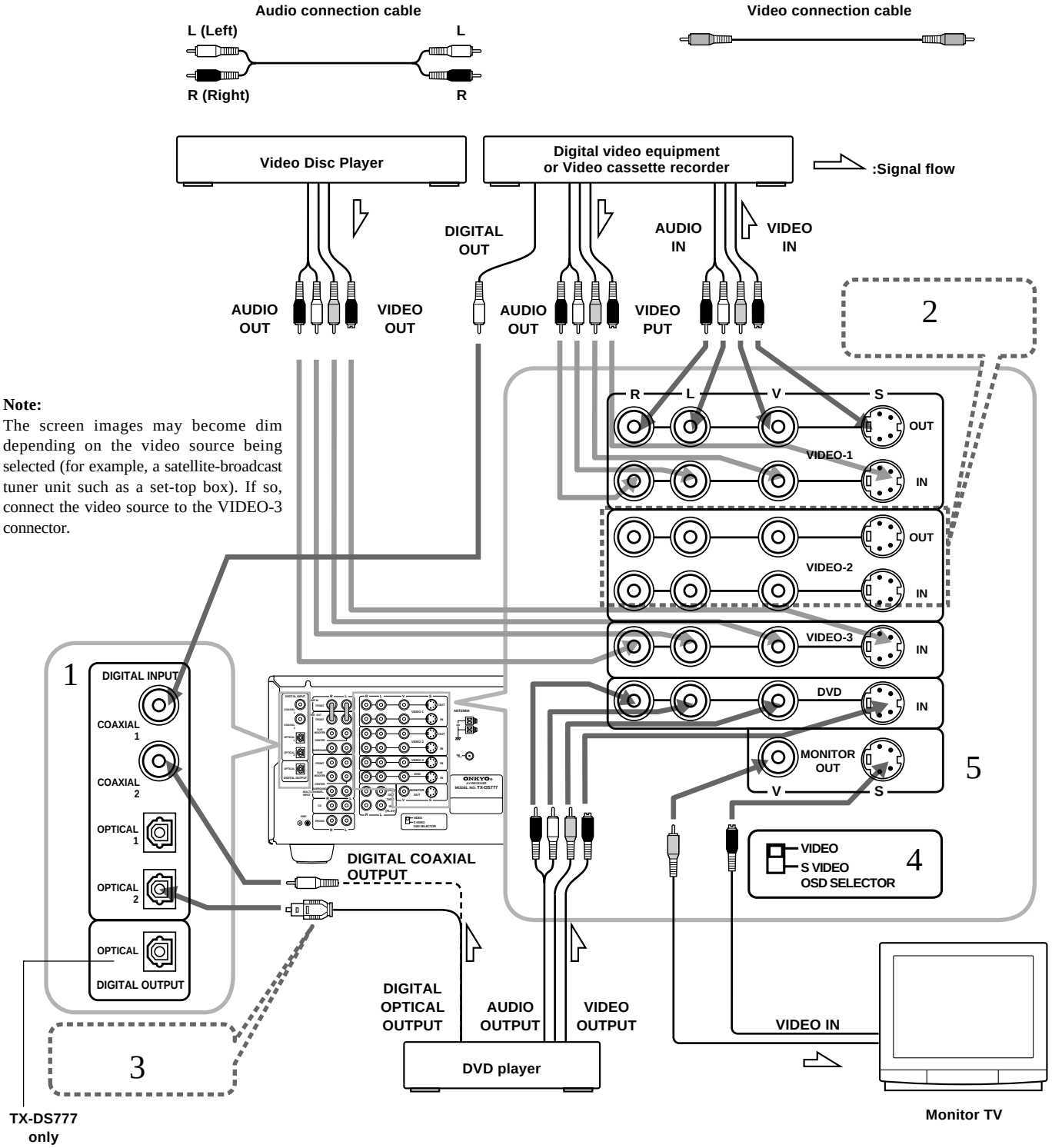
You can use the remote controller of this receiver to operate cassette tape decks and compact disc players that have Onkyo RI connectors.

Connect a remote control cable to the connector with the RI mark.

- An RI remote control cable equipped with a 3.5mm (1/8 in.)-diameter miniature two-conductor phone plug comes with every compact disc player or cassette tape deck that has an RI connector.
- Remote control operation is not possible if only the remote control cable is connected – the audio connection cables must also be connected.
- This receiver's remote controller does not support control of Onkyo turntables.
- If the connecting device has two RI connectors lined-up vertically or horizontally, you can use either of them. They both offer the same functionality.
- You can use the remote controller for the TX-DS777/TX-DS676 to control a Onkyo DVD player or MD recorder that is not connected via an RI cable. When you control such a DVD player or MD recorder, point the remote controller toward the sensor area of the DVD player or MD recorder.

Video equipment connections

- **On each pair of input jacks, a red connector (marked R) corresponds to the right channel, and a white connector (marked L) to the left channel.**
- **A yellow connector (marked V) is used for video connection.**
- **Please refer to the instruction manual of each component when making any connections.**



Note:
The screen images may become dim depending on the video source being selected (for example, a satellite-broadcast tuner unit such as a set-top box). If so, connect the video source to the VIDEO-3 connector.

Video equipment connections

1. **Digital audio connections**
   This receiver has a powerful digital signal processor for use with DVD players, DAT decks, and CD players. The digital inputs, COAXIAL 1, 2 and OPTICAL 1, 2can be assigned to individual input selector buttons, so when an input selector button is pressed, the assigned digital input is used instead of the corresponding analog input. (See page 23,29.)
2. **Connect your second video cassette deck.**
3. **Connect your DVD player to COAXIAL or OPTICAL, whichever appropriate.**
4. **OSD SELECTOR:**
   Selects whether to output the OSD (On-Screen Display) information with the Video signals or the S-Video signals. Select "S VIDEO" when the monitor is connected via the S-Video terminal.
5. **Connecting video equipment through S-video connectors**

- The signals input from the S IN jack will be output only to the S OUT jack; the signals input from the V IN jack will be output only to the V OUT jack.
- For information on whether you need to connect either S or V jack or both of them, please refer to the instruction manual that came with your video equipment.

6. **Connect your video camera or TV game machine to the VIDEO-4 / VIDEO CAM INPUT jacks.**
   If a momaural video camera is used, connect its audio connection cable to " R(MONO)" audio jack.

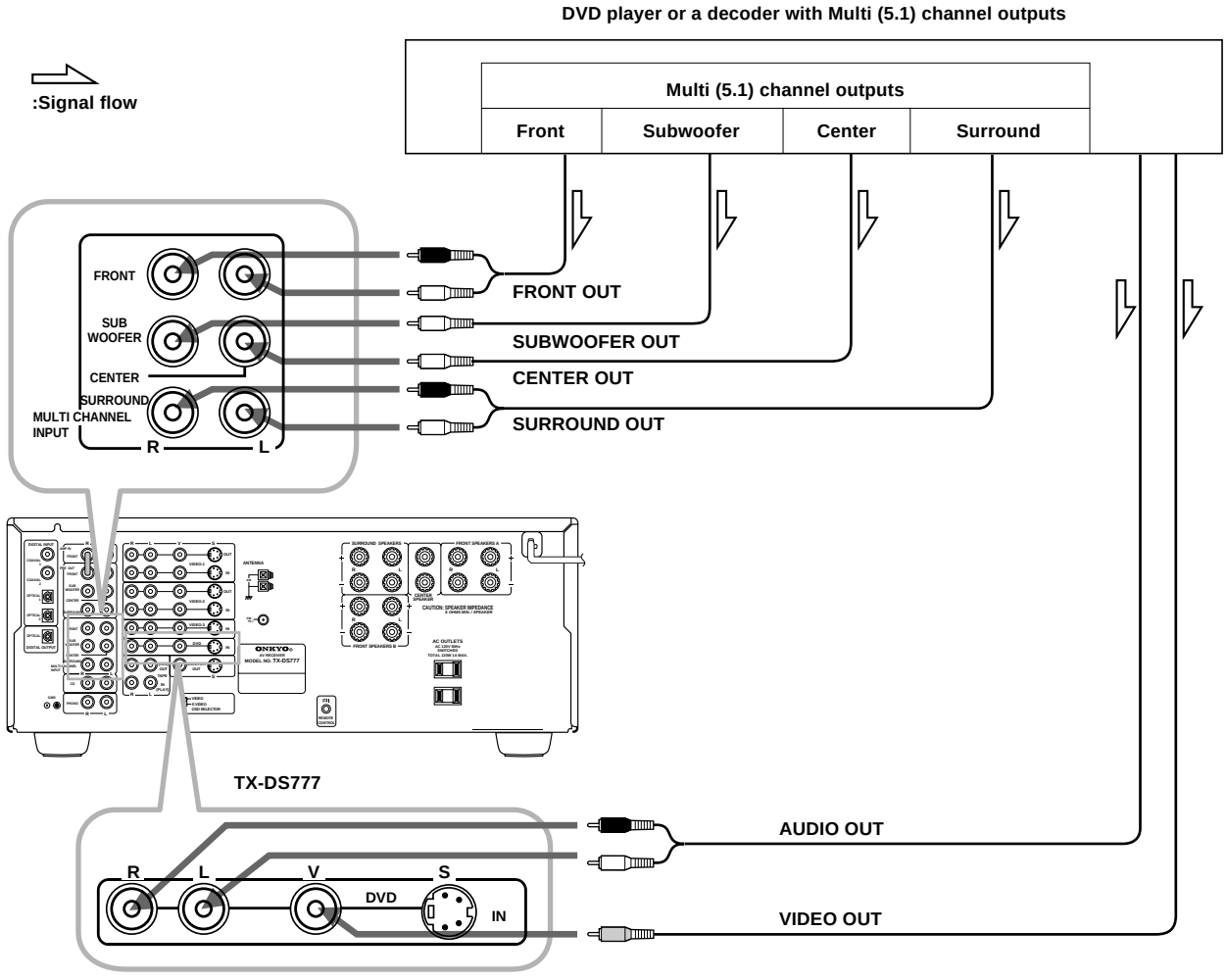
Notes:

- When using a playback-only VCR, connect it to VIDEO 3 or VIDEO 4. If you connect it to VIDEO 1 or VIDEO 2, you need to make only the input connections.
- This receiver can be used with only a monitor TV equipped with a video input or S video jack.
- Interference may be caused between the TV and this receiver. If this interference occurs, place the receiver and the TV as far apart as possible. We do not recommend the use of a common TV/FM antenna (see antenna section).
- Remove the protective cap attached to the DIGITAL INPUT/OUTPUT (OPTICAL) jack before making the connection. When this jack is not used, replace the protective cap.

Connecting equipment with 5.1-channel output

Decoder with 5.1 channel output

You may connect the 5.1 channel outputs of an external decoder (such as MPEG decoder and DVD player) to the MULTI CHANNEL INPUTs of this unit.



Connecting speakers

The TX-DS777/676 allows you to connect two speaker systems.
Before connecting the speakers, place them correctly by consulting the instruction manuals that came with your speakers.
For surround playback (see “Using the listening modes” on page 34), the configuration and placement of your speakers are very important.
For Home THX cinema surround playback, we recommend that you use a THX speaker system that is certified by Lucasfilm Ltd. (such as Onkyo HTS SYSTEM-2).

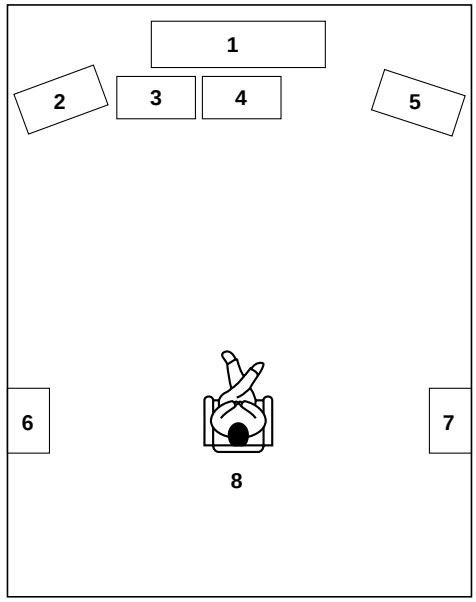
Ideal speaker configuration:

- **Right and Left front speakers**
- **Center speaker**
  Produces a rich sound image by serving as a sound source for the Right and Left front speakers and enhancing the sonic movement.
- **Right and Left surround speakers**
  Adds three-dimensional sonic movement and produces environmental sound associated with the background and effect sound for each scene.
- **Subwoofer**
  Produces powerful and heavy bass.

Minimum speaker configuration for surround sound playback:

- **Right and Left front speakers**
- **Right and Left surround speakers**

The sound recorded for the center speaker and the subwoofer will be properly distributed to the Right and Left front speakers and the Right and Left surround speakers for optimized surround playback.



1 TV or Screen
2 Front speaker Left
3 Subwoofer
4 Center speaker
5 Front speaker Right
6 Surround speaker Left
7 Surround speaker Right
8 Listening Position

Speaker placement

Ideal speaker placement varies depending on the size of your room and the wall coverings. Here, only typical example of speaker placement and recommendations are shown.

Speaker systems
Left and Right front speakers and Center speaker

- Place these three speakers at the same height from the floor.
- Place each speaker so that sound is aimed at the audience's ears at the listening position.

Left and Right surround speakers

- Place these speakers so that their height is 1 meter higher than that of the audience's ears.

Subwoofer
To get the highest bass effect, place a subwoofer.
You can place your subwoofer anywhere in your room because the placement affects very little the perceived sound.

Connecting speakers

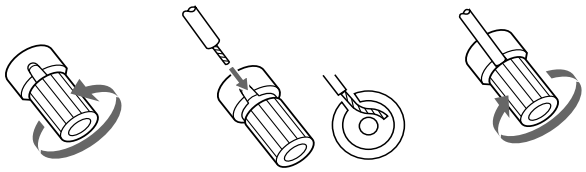
- This receiver is designed to produce optimum sound quality when speakers with impedances within the specified ranges are connected. Please check the following information and choose speakers with appropriate impedances for the connections.

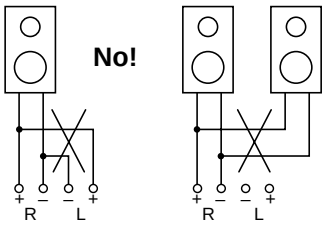
FRONTSPEAKERS:	A or B: 6 ohms min./speaker
SURROUNDSPEAKERS:	6 ohms min./speaker
CENTERSPEAKER:	6 ohms min.

Connecting the speaker cable

1. Twist wire ends very tight.

2. Unscrew 3. Insert wire 4. Screw

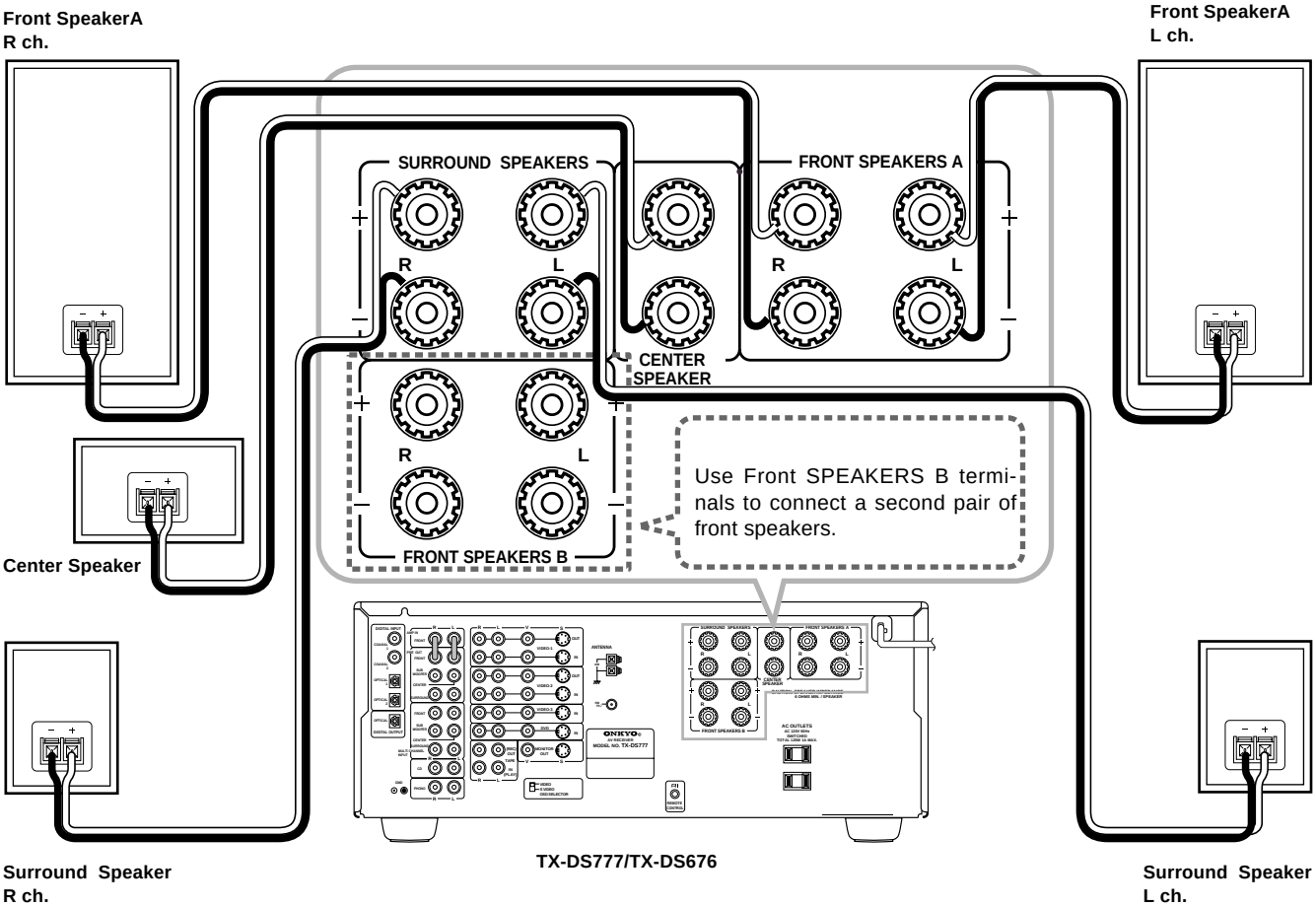




- When you use only one speaker or wish to listen to monaural (mono) sound, a single speaker should never be connected in parallel to both the right and left channel terminals simultaneously.

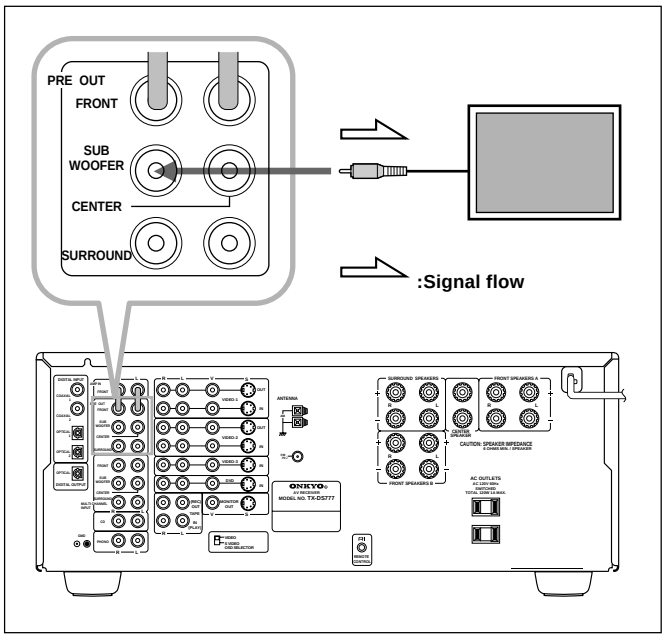
Note:
To prevent damage to circuitry, never short-circuit the positive (+) and negative (–) speaker wire.

No!



TX-DS777/TX-DS676

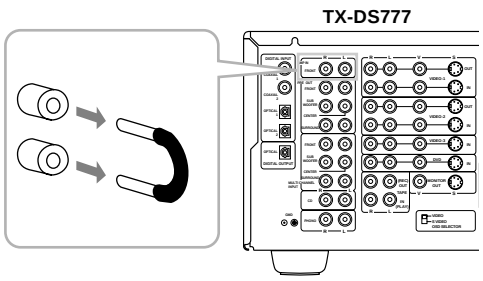
Connecting speakers



Connecting a subwoofer

Use the PREOUT SUBWOOFER jack to connect a subwoofer with a built-in power amplifier. If your subwoofer does not have a built-in amplifier, connect an amplifier to the PREOUT SUBWOOFER jack and the subwoofer to the amplifier.

Connecting power amplifiers

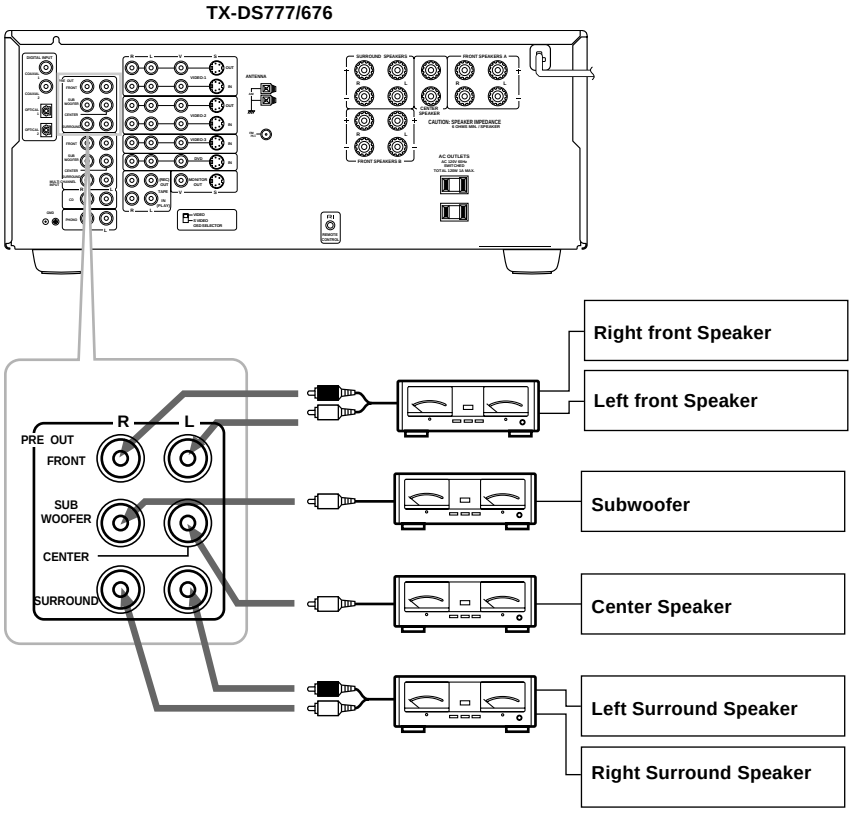


Notes:

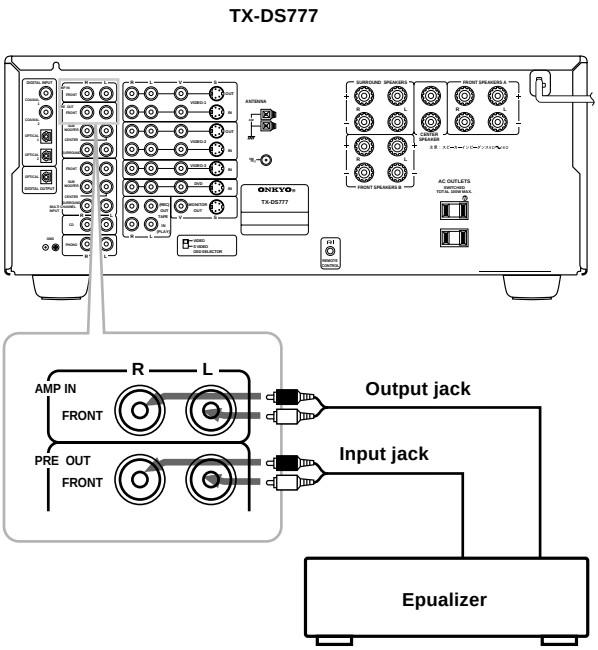
- Keep the jumper plugs so that you will not lose them.
- When the connectors are not in use, replace the jumper plugs.

Connecting power amplifiers

Using auxiliary power amplifiers allows you to listen at louder volumes than with the TX-DS777/676 alone. If power amplifiers are used, connect each speaker to the corresponding power amplifier. When using speakers connected through external power amplifiers, turn OFF the SPEAKERS A.

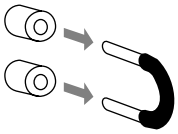


Connecting an equalizer (TX-DS777)

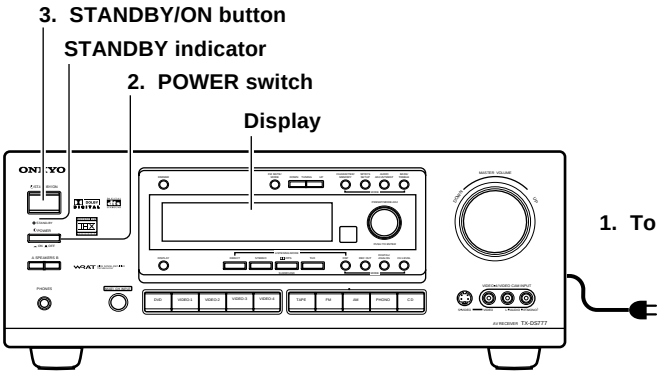


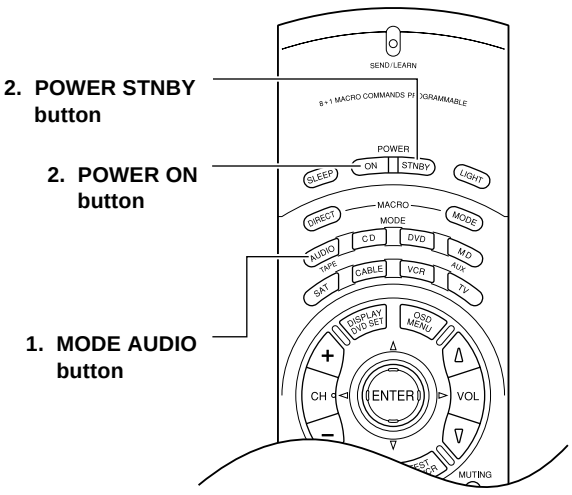
The AMP IN and the PREOUT FRONT connectors are attached with jumper plugs. When connecting an equalizer, remove these jumper plugs before connecting the audio connection cables.

1. **Remove the jumper plugs.**
   See "Connecting power amplifiers."
2. **Connect an equalizer.**



Connecting the power





Connecting the power

- Before you plug in the receiver, confirm that all connections have been made properly.
- Turning on this receiver's power may cause a momentary power surge, which might interfere with other electrical equipment, such as computers. If this happens, use a wall outlet on a different circuit.

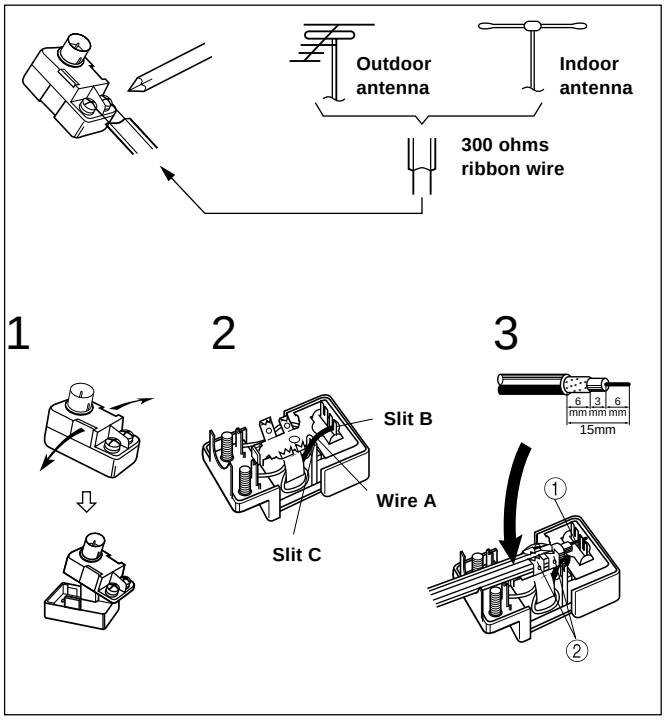
1. **Plug the power cord into an AC wall outlet.**
2. **Press the POWER switch to set the receiver to Standby mode.**
   The STANDBY indicator will light up.
3. **Press the STANDBY/ON button to turn on the receiver. The display will light up and the STANDBY indicator will be turned off.**
   If you press the STANDBY/ON button, the receiver returns to Standby mode.

Turning the power on from the remote controller:

1. **Press the MODE AUDIO button.**
2. **Press the POWER ON button to turn on the power to the receiver, or press the POWER STNBY button to set the receiver in standby mode.**

- You cannot use the remote controller if the POWER switch on the receiver is set to OFF.
- Set the volume level to minimum before you turn off the power to the receiver.

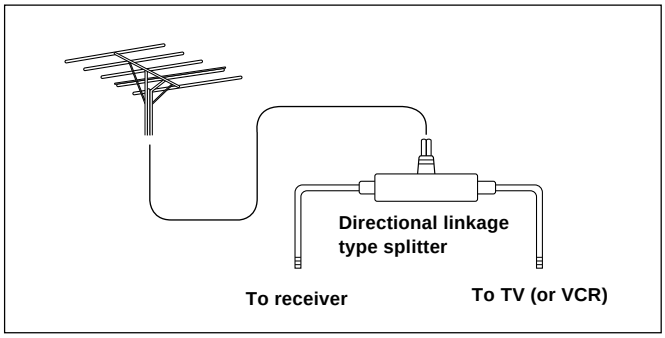
Making antenna connections



Connecting the antenna cable to the 75/300 ohm antenna adapter (Other than North America and European models)

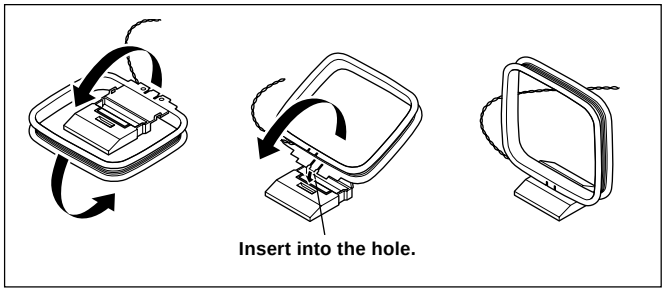
Connecting the 300 ohm ribbon wire:
Loosen the screws and wrap the wire around these screws. Then tighten the screws with a screwdriver.

Connecting the coaxial cable:
1. With your fingernail or a small screwdriver, press the stoppers outward and remove the cover.
2. Remove the transformer wire A from slit B and insert it into slit C.
3. Prepare the coaxial cable as shown in the diagram.
   Connect the 75/300 ohm antenna adapter to the coaxial cable.
   1 Insert the end of the cable.
   2 Clamp it in place with pliers.
4. Re-install the cover.



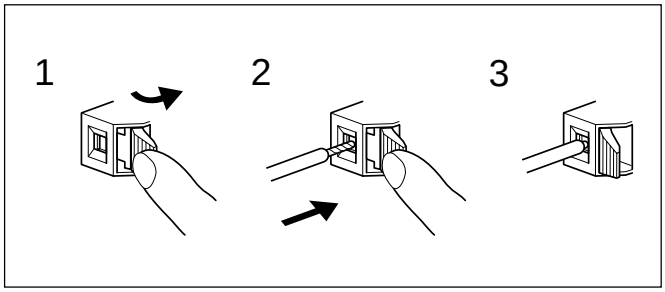
Directional linkage

Do not use the same antenna for both FM and TV (or VCR) reception since the FM and TV (or VCR) signals can interfere with each other. If you must use a common FM/TV (or VCR) antenna, use a directional linkage type splitter.



Assembling the AM loop antenna

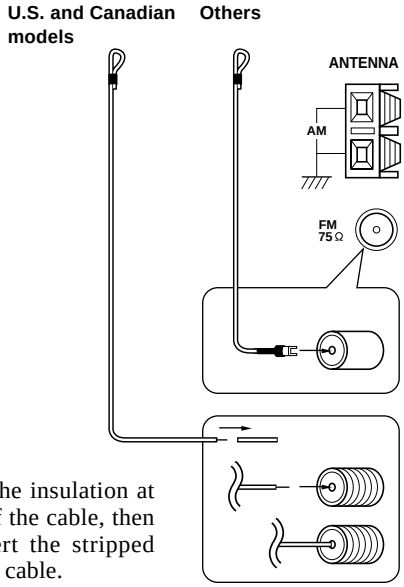
Assemble the loop antenna as shown in the illustration.
- Refer to the next page for details on connecting the AM loop antenna.



Connecting the antenna cable

1. Press down the lever.
2. Insert the wire into the hole.
3. Release the lever to replace it.

Making antenna connections

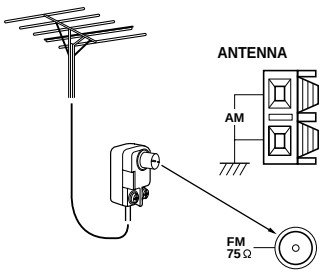


Remove the insulation at the end of the cable, then fully insert the stripped end of the cable.

Connecting the included antennas

Connecting the FM indoor antenna:
The FM indoor antenna is for indoor use only. Extend the antenna and move it in various directions until the clearest signal is received. Fix it with push pins or similar implements in the position that will cause the least amount of distortion.
If the reception is not very clear with the attached FM indoor antenna, the use of an outdoor antenna is recommended.

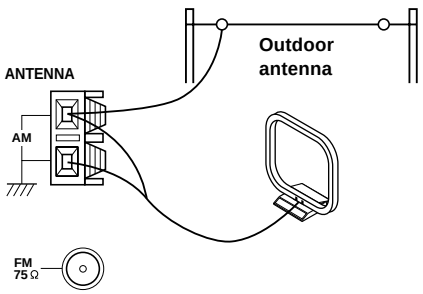
Connecting the AM loop antenna:
The AM loop antenna is for indoor use only. Set it in the direction and position where you receive the clearest sound. Put it as far away as possible from the unit, TVs, speaker cables, and power cords.
When reception is not satisfactory with the attached AM loop antenna alone, connection of an outdoor antenna is recommended.



Connecting an FM outdoor antenna

Please make sure that you follow the considerations below regarding the location.
Keep the antenna away from noise sources (neon signs, busy roads, etc.).
It is dangerous to put the antenna close to power lines. Keep it well away from power lines, transformers, etc.

- To avoid the risk of lightning and electrical shock, grounding is necessary. Follow item 19 of the “Important Safeguards” on page 2 when you install the outdoor antenna.

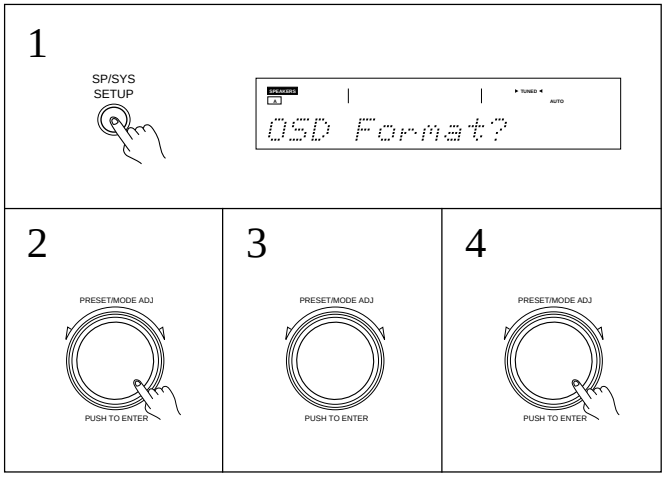


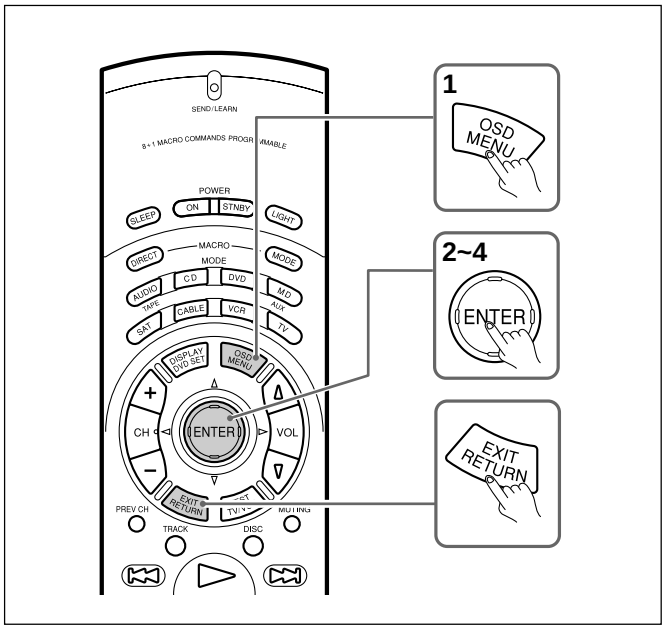
Connecting an AM outdoor antenna

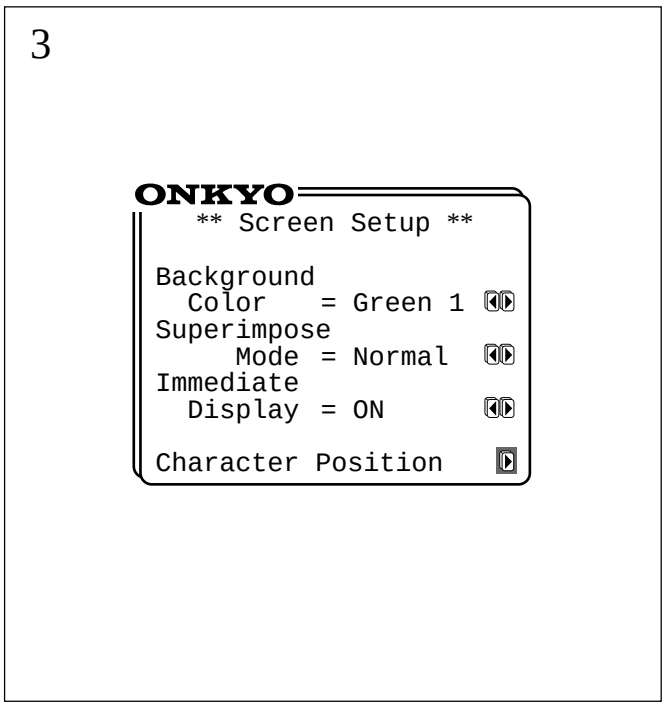
The outdoor antenna will be more effective if it is stretched horizontally above a window or outside.

- Do not remove the AM loop antenna.
- To avoid the risk of lightning and electrical shock, grounding is necessary. Follow item 19 of the “Important Safeguards” on page 2 when you install the outdoor antenna.

Using the on-screen display







Using the OSD (on-screen display) function lets you display each screen on your TV so that you can perform various settings using only the remote controller.

Setting the NTSC/PAL format (European/worldwide model only)

The OSD format defaults to "Auto," which means the OSD format is set automatically. You can change this factory-set default as follows:

1. **Press the SP/SYS SETUP button repeatedly until "OSD Format?" appears.**
2. **Press the SMART SCAN CONTROLLER.**
   The unit enters the NTSC/PAL setting mode.
3. **Rotate the SMART SCAN CONTROLLER to select the OSD format.**
   The display changes as below. Select the OSD format used in your TV.
   Auto (Automatic setting)→ PAL → NTSC → (Auto)
4. **Press the SMART SCAN CONTROLLER.**

How to use the on-screen display

1. **Press the OSD MENU button.**
   The on-screen display appears.
2. **Press the upper or lower edge of the ENTER/Cursor button to select the item.**
   The items you can select on each screen are shown on the next page.
3. **Press the right edge of the ENTER/Cursor button to display the setting screen.**
   On each screen, you can press the upper or lower edge of the ENTER/Cursor button to select an item and then press the right or left edge of the button to change the setting.
   If the item has an additional screen, you can press the right edge of the button to change to that screen.
4. **Press the center of the ENTER/Cursor button.**

Use either of the following methods to turn off the on-screen display.

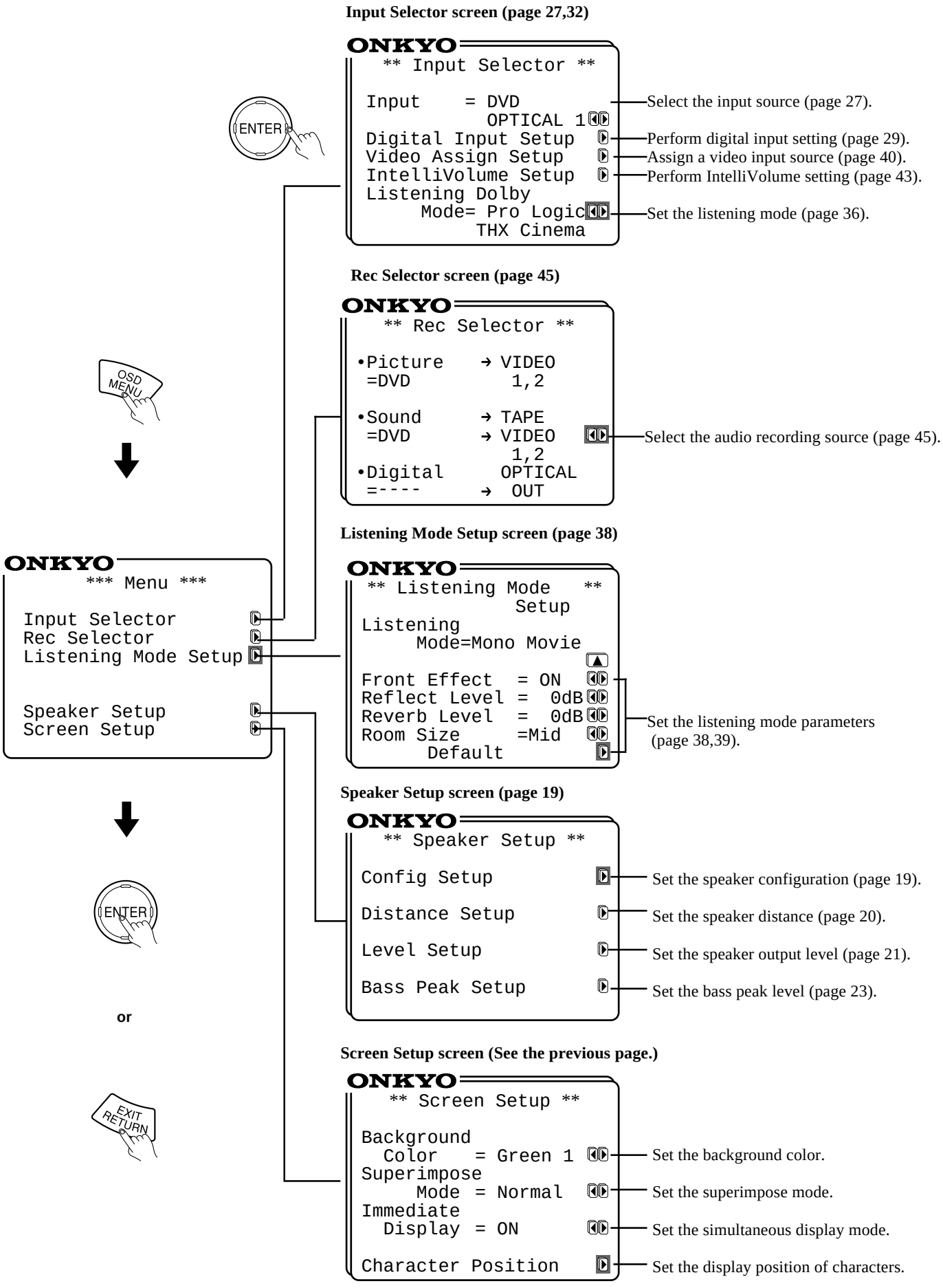
- Press the center of the ENTER/Cursor button.
  By pressing this button, you can follow in reverse the sequence in which you have displayed each setting screen. Finally, the on-screen display disappears.
- Press the EXIT button.
  The on-screen display disappears immediately.

Screen Setup

Use the on-screen display to set the background color, the superimpose mode, etc.

1. **Press the OSD MENU button.**
2. **Select "Screen Setup" and press the right edge of the ENTER/Cursor button.**
3. **Press the upper or lower edge of the ENTER/Cursor button to select each item and then press the right or left edge of the button to set a parameter.**
   Background Color : Select the desired color from BLUE-1, BLUE-2, GREEN-1, GREEN-2, MAGENTA, RED-1, and RED-2.
   Superimpose Mode : Select one of the following:
   OFF : The on-screen display appears on the selected background color.
   Normal : The on-screen display is superimposed on images when video signals are input and shown on the selected background color when no video signal is input.
   Black : The on-screen display appears on black screen.
   Immediate Display : Select either "ON" or "OFF." When set to "ON," the screen will show for 3 seconds the result (or process) of the operation every time you operate the unit. For example, the volume level indicator appears on the screen when you increase the sound volume.
   Character Position : Using the ENTER/Cursor button, move the on-screen display to the lower left, upper left, upper right, or lower right of the TV screen.
4. **Press the center of the ENTER/Cursor button, or press the EXIT button.**

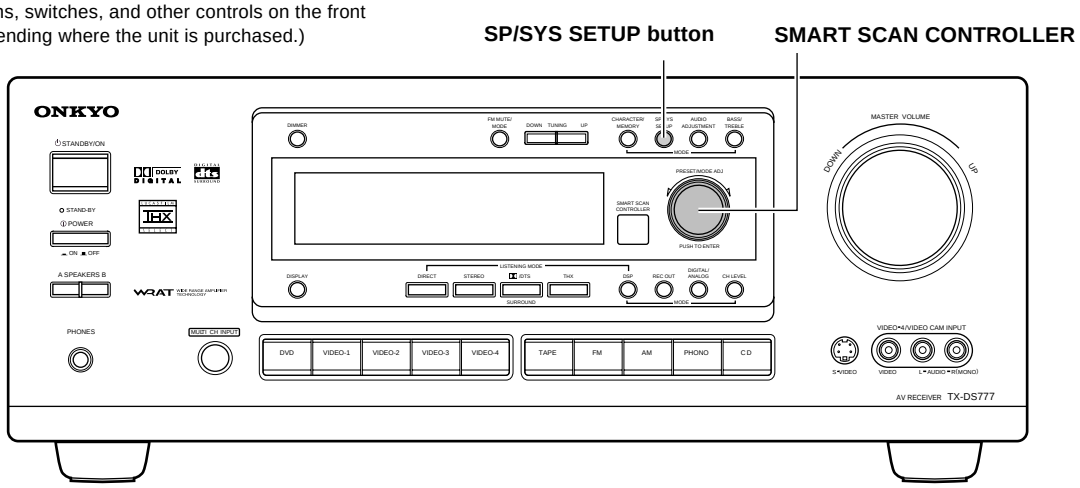
OSD screens


Input Selector screen (page 27,32)
ONKYO
** Input Selector **
Input = DVD
OPTICAL 1
Digital Input Setup
Video Assign Setup
IntelliVolume Setup
Listening Dolby
Mode= Pro Logic
THX Cinema
Select the input source (page 27).
Perform digital input setting (page 29).
Assign a video input source (page 40).
Perform IntelliVolume setting (page 43).
Set the listening mode (page 36).
Rec Selector screen (page 45)
ONKYO
** Rec Selector **
•Picture → VIDEO 1,2
=DVD
•Sound → TAPE
=DVD → VIDEO 1,2
•Digital OPTICAL
=---- → OUT
Select the audio recording source (page 45).
OSD MENU
ENTER
Listening Mode Setup screen (page 38)
ONKYO
*** Menu ***
Input Selector
Rec Selector
Listening Mode Setup
Speaker Setup
Screen Setup
ONKYO
** Listening Mode Setup **
Listening Mode=Mono Movie
Front Effect = ON
Reflect Level = 0dB
Reverb Level = 0dB
Room Size =Mid
Default
Set the listening mode parameters (page 38,39).
Speaker Setup screen (page 19)
ONKYO
** Speaker Setup **
Config Setup
Distance Setup
Level Setup
Bass Peak Setup
Set the speaker configuration (page 19).
Set the speaker distance (page 20).
Set the speaker output level (page 21).
Set the bass peak level (page 23).
ENTER
or
EXIT RETURN
Screen Setup screen (See the previous page.)
ONKYO
** Screen Setup **
Background Color = Green 1
Superimpose Mode = Normal
Immediate Display = ON
Character Position
Set the background color.
Set the superimpose mode.
Set the simultaneous display mode.
Set the display position of characters.

Setting the speaker configuration

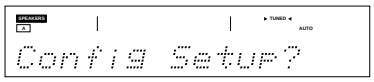
Perform this setup before using the unit.

(The layout of buttons, switches, and other controls on the front panel may vary depending where the unit is purchased.)



1

SP/SYS SETUP



PRESET/MODE ADJ

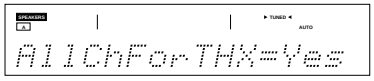
PUSH TO ENTER

2

TX-DS777 only

PRESET/MODE ADJ

PUSH TO ENTER



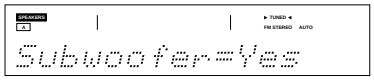
PRESET/MODE ADJ

PUSH TO ENTER

3 ~ 6

PRESET/MODE ADJ

PUSH TO ENTER



PRESET/MODE ADJ

PUSH TO ENTER

Front

Center

Surround

7

PRESET/MODE ADJ

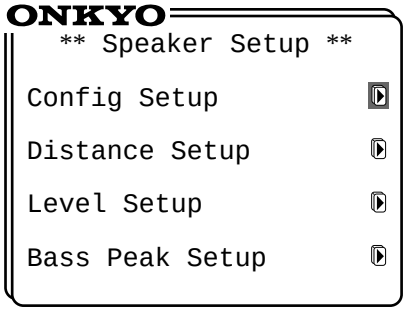
PUSH TO ENTER

Setting the speaker configuration parameters

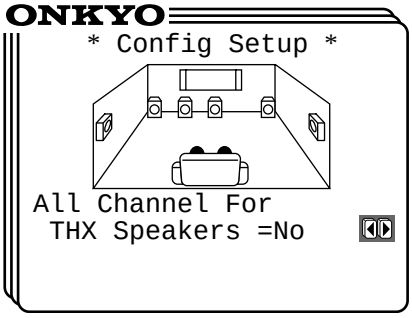
Using the SMART SCAN CONTROLLER, you can easily set the speaker configuration. Turn it to select the parameter and press it to go to the next item.

1. **Press the SP/SYS SETUP button.**
   "Config Setup?" appears. Then Press the SMART SCAN CONTROLLER.
2. **For the TX-DS676, go to the next step.**
   For the TX-DS777, "All Ch For THX" appears.
   Set "Yes" or "No."
   Yes: Your system is a THX speaker system.
   (The following steps are unnecessary.)
   No : Your system is a non-THX speaker system.
   Press the SMART SCAN CONTROLLER.
3. **Set whether or not a subwoofer is connected.**
   Yes: A subwoofer is connected.
   No: A subwoofer is NOT connected.
   Press the SMART SCAN CONTROLLER.
4. **Select the size of your front speakers.**
   Large: Large front speakers are used.
   Small: Small front speakers are used.
   Press the SMART SCAN CONTROLLER.
5. **Select the size of your center speaker.**
   Large: A large center speaker is used.
   Small: A small center speaker is used.
   None: A center speaker is NOT used.
   Press the SMART SCAN CONTROLLER.
6. **Select the size of your surround speakers.**
   Large: Large surround speakers are used.
   Small: Small surround speakers are used.
   None: Surround speakers are NOT used.
7. **Press the SMART SCAN CONTROLLER.**
   This completes the speaker configuration setup.

3



4



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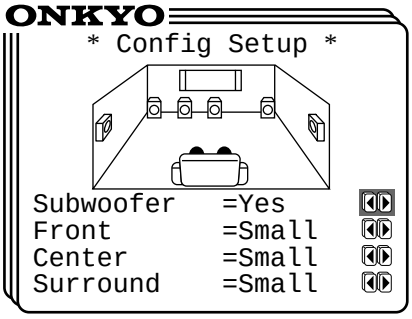


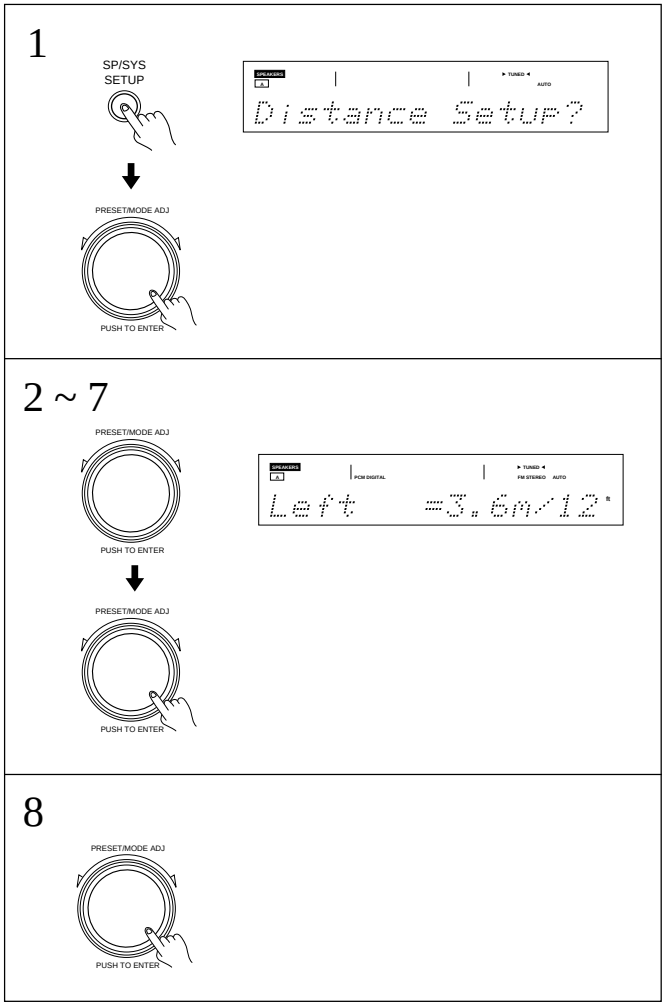
• Using the on-screen display

1. **Press the OSD MENU button.**
2. **Select "Speaker Setup" and then press the right edge of the ENTER/Cursor button.**
3. **Select "Config Setup" and then press the right edge of the ENTER/Cursor button.**
4. **For the TX-DS676, go to the next step.**
   For the TX-DS777, the display shows "All Channel For THX Speakers."
   Select "Yes" and then press the center of the ENTER/Cursor button. This sets all the connected speakers to THX speakers.(The following steps are unnecessary.)
   Select "No" and then press the center of the ENTER/Cursor button to go to the next step.
5. **Press the upper or lower edge of the ENTER/Cursor button to set each item and then press the right or left edge of the button to set a parameter**

   Subwoofer: Set whether or not a subwoofer is connected.
   Yes: A subwoofer is connected.
   No: A subwoofer is NOT connected.
   Front : Select the size of your front speakers.
   Large: Large front speakers are used.
   Small: Small front speakers are used.
   Center : Select the size of your center speaker.
   Large: A large center speaker is used.
   Small: A small center speaker is used.
   None: A center speaker is NOT used.
   Surround : Select the size of your surround speakers.
   Large: Large surround speakers are used.
   Small: Small surround speakers are used.
   None: Surround speakers are NOT used.

6. **Press the center of the ENTER/Cursor button, or press the EXIT button, to exit the setup mode.**

Setting the speaker distance

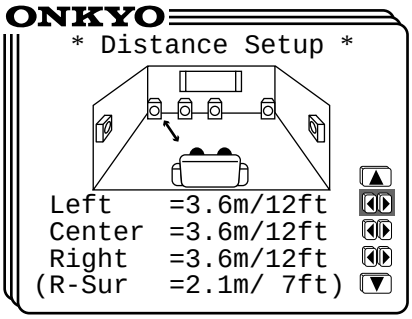


Setting the distance from each speaker to the listening position (Loudspeaker Position Time Synchronization*)

Select a value that is closest to the actual distance between each speaker and the listening position.
Using the SMART SCAN CONTROLLER, you can easily set the speaker configuration. Turn it to select the setting and press it to go to the next item.
For each speaker, you can set a distance of 0.3 meter to 9.0 meters (or 1 foot to 30 feet) in increments of 30 cm (1 foot).

1. **Press the SP/SYS SETUP button repeatedly until "Distance Setup ?" appears.**
   Press the SMART SCAN CONTROLLER.
2. **"Left=" appears. Set the distance from the left front speaker.**
   Press the SMART SCAN CONTROLLER.
3. **"Center=" appears. Set the distance from the center speaker.**
   Press the SMART SCAN CONTROLLER.
4. **"Right=" appears. Set the distance from the Right front speaker.**
   Press the SMART SCAN CONTROLLER.
5. **"R-Sur=" appears. Set the distance from the Right surround speaker.**
   Press the SMART SCAN CONTROLLER.
6. **"L-Sur=" appears Set the distance from the left surround speaker.**
   Press the SMART SCAN CONTROLLER.
7. **"SW=" appears. Set the distance from the subwoofer.**
8. **Press the SMART SCAN CONTROLLER.**
   The speaker distance setup has been completed.

* Loudspeaker Position Time Synchronization is a registered trademark of Lucasfilm LTD.

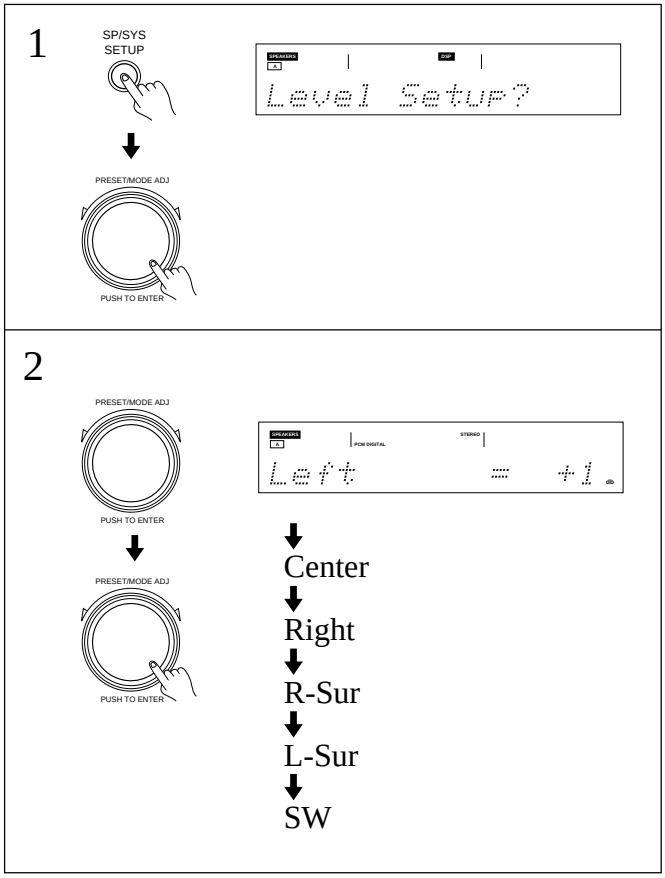


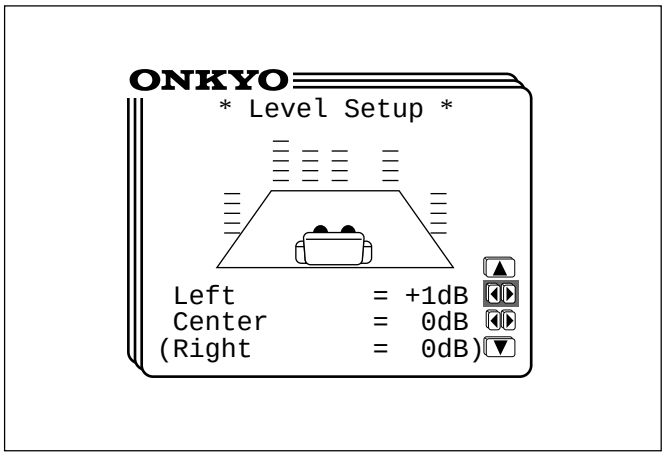
• Using the on-screen display

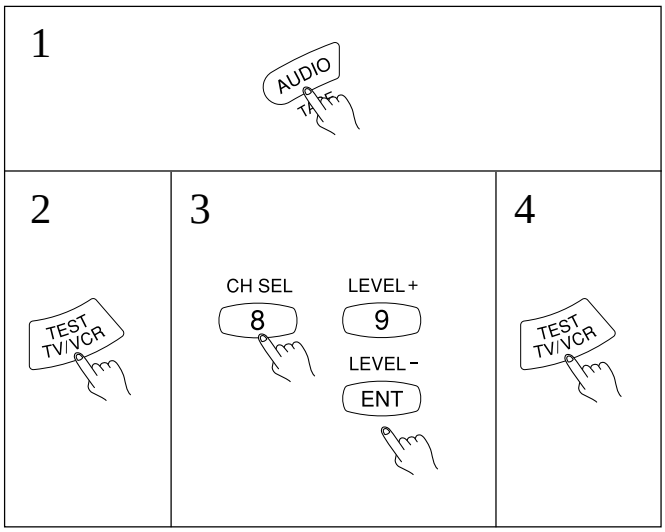
1. **Press the OSD MENU button.**
2. **Select "Speaker Setup" and then press the right edge of the ENTER/Cursor button.**
3. **Select "Distance Setup" and then press the right edge of the ENTER/Cursor button.**
   You can now set the distance from each speaker.
   (When the cursor is on "Right," you can press the lower edge of the ENTER/Cursor button to display additional items.)
   Select a value that is closest to the actual distance. For each speaker, you can set a distance of 0.3 meter to 9.0 meters (or 1 foot to 30 feet) in increments of 30 cm (I foot).

   Left : Left front speaker
   Center : Center speaker
   Right : Right front speaker
   R-Sur : Right surround speaker
   L-Sur : Left surround speaker
   Subwoofer : Subwoofer
4. **Press the center of the ENTER/Cursor button, or press the EXIT button, to exit the setup mode.**

Setting the speaker Level







Using the test tone to adjust the speaker output levels

1. **Press the SP/SYS SETUP button repeatedly until "Level Setup?" appears.**
   Press the SMART SCAN CONTROLLER.
   The display shows "Left."
2. **Rotate clockwise or counterclockwise the SMART SCAN CONTROLLER to adjust the speaker output level.**
   You can adjust the output level of each speaker in the range of 12 to +12 dB, except for the subwoofer whose adjustment range is -30 to +10 dB.
   Press the SMART SCAN CONTROLLER.
   You hear a test tone (pink noise) from the left front speaker. Each time you press the SMART SCAN CONTROLLER, the speaker that produces a test tone changes as below. Set the output level of each speaker by rotating the SMART SCAN CONTROLLER so that you can hear the same level of test tone at the listening position.
   Left (Left front)→Center (Center) →Right (Right front)→R-Sur (Right surround)→L-Sur(Left surround)→Subwoofer (Subwoofer) →Left

Notes:

- In order to correctly set the output levels, use a hand-held Sound Pressure Level meter (SPL), set to C-Weighting and Slow averaging. A Radio Shack® SPL meter (catalogue number 330-2055) or equivalent can be used. Using the internal channel noise generators, set each channel so that you read 75 dB SPL from each channel.
- SPEAKER B, when selected, will be deselected automatically as soon as the test tone starts sounding. The Test Tone function is not available when the headphones are connected or when MULTI CH INPUT is selected.
- The test tone will not be output from the speaker that has been set to "No" in the configuration setup explained on the page 18,19.
- If the speaker level is set to +1dB or higher , the maximum level indicated on the display will change if you raise the volume level.

• Using the on-screen display

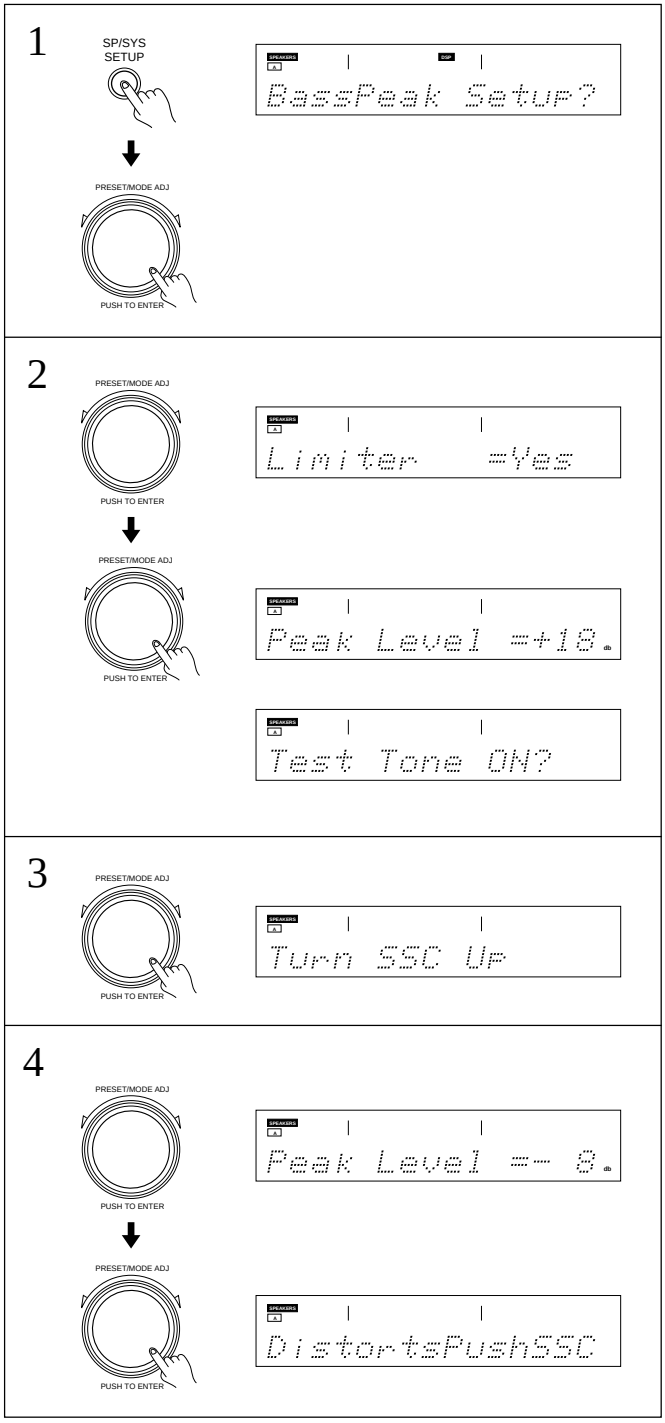
1. **Press the OSD MENU button.**
2. **Select "Speaker Setup" and then press the right edge of the ENTER/Cursor button.**
3. **Select "Level Setup" and then press the right edge of the ENTER/Cursor button.**
   The Level Setup screen appears and a test tone (pink noise) is output from the left front speaker. You can change the speaker that outputs the test tone in the following sequence.(When the cursor is on "Center," you can press the lower edge of the ENTER/Cursor button to display additional items.)

   Left (Left front)→Center (Center)→Right (Right front)→ R-Sur (Right surround) →L-Sur (Left surround)→Subwoofer (Subwoofer) → Left.
4. **Set the output level of each speaker so that you can hear the same level of test tone at the listening position.**
   You can adjust the output level of each speaker in the range of -12 to +12 dB, except for the subwoofer whose adjustment range is -30 to +10 dB.
5. **Press the center of the ENTER/Cursor button, or press the EXIT button, to exit the setup mode.**

• Using Test button on the remote controller

1. **Press the MODE AUDIO button.**
2. **Press the TEST button.**
   Left front speaker produces the test tone (pink noise).
3. **To adjust the level of each speaker,press the CH SEL, button to select a speaker and press the LEVEL +/- buttons to raise or lower the level.**
4. **Press rhe TEST button to complete adjustment.**

Setting the Speaker level



Setting the bass peak level (Bass Peak Level Manager* TX-DS777 only)

To prevent damage to your subwoofer, you can set the bass peak level the subwoofer can reproduce.
If your system does not include any subwoofer, this will set the bass peak level your Front speakers can reproduce.

1. **Press the SP/SYS SETUP button repeatedly until "Bass Peak Setup?" appears. Then Press the SMART SCAN CONTROLLER.**
   "Limiter ="appears and You are now in the bass peak level setting mode.
2. **Rotate the SMART SCAN CONTROLLER to select "Yes" or "No."**
   If you select "Yes" and then press the SMART SCAN CONTROLLER, the display will show the current peak level followed by "Test Tone ON?."
3. **Press the SMART SCAN CONTROLLER.**
   The test tone is output and "Turn SSC Up" appears.
4. **Gently rotate the SMART SCAN CONTROLLER clockwise and, just before sound is distorted, press the SMART SCAN CONTROLLER.**
   If you do not press the SMART SCAN CONTROLLER, "Distorts Push SSC" appears.

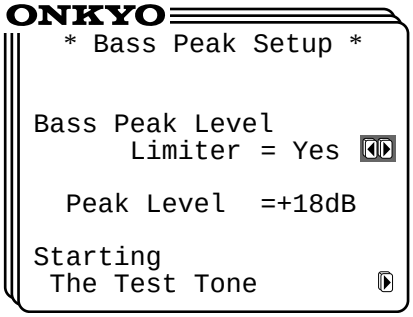
Note:

- Allowing the speakers to produce distorted sound for a long time may cause damage to the speakers.
- To disable the bass peak level limiter, select "No" in step 2.

* Bass Peak Level Manager is a registered trademark of Lucasfilm LTD.

Setting the Speaker level

3



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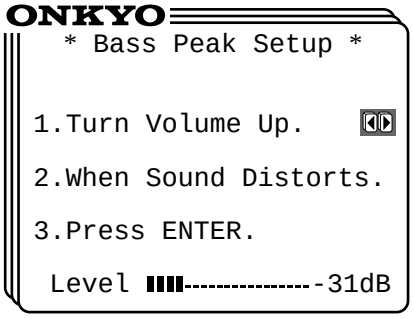
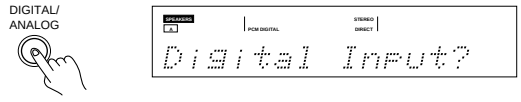


• Using the on-screen display

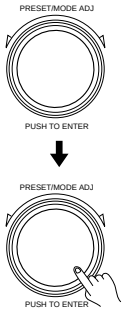
1. **Press the OSD MENU button.**
2. **Select "Speaker Setup" and then press the right edge of the ENTER/Cursor button.**
3. **Select "Bass Peak Setup" and then press the right edge of the ENTER/Cursor button.**
   The "Bass Peak Setup" screen appears.
   Bass Peak Level Limiter : Turns Yes/No the bass peak limiter. The bass peak level when the bass peak limiter is turned Yes is indicated as "Peak Level."
4. **Select "Starting The Test Tone" and then press the right edge of the ENTER/Cursor button.**
   This generates a test signal and automatically sets the unit's MASTER VOLUME control knob to -27 dB.
   You can now press the right and left edges of the ENTER/Cursor button to adjust the peak level in units of 1 dB.
5. **Press the ENTER/Cursor button just before the sound is distorted.**
   The bass peak level is stored and the Speaker Setup screen is displayed again.

Playing a digital source (Digital Input Setup)

2



3



Digital input setup

Each of the DVD, CD, VIDEO 1-3, and TAPE input channels can be set so that it accepts analog or digital audio input. The default setting is below. Change the setting according to the connection.

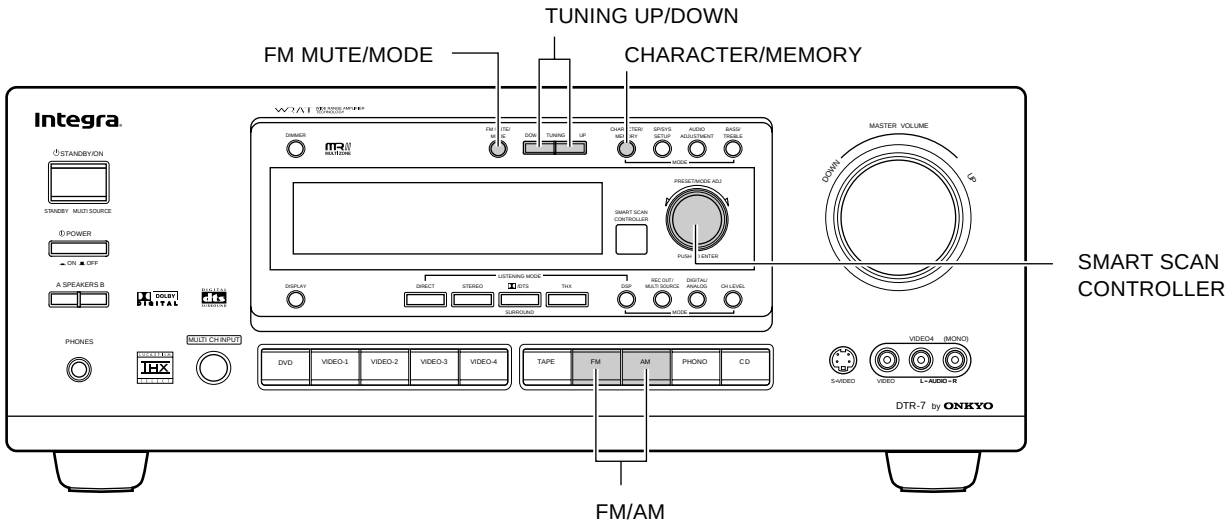
DVD:	OPT2
VIDEO1:	COAX1
VIDEO2:	– – – –
VIDEO3:	COAX2
TAPE:	– – – –
CD:	OPT1

Assume that you have connected a DVD player to the COAXIAL 1 connector.

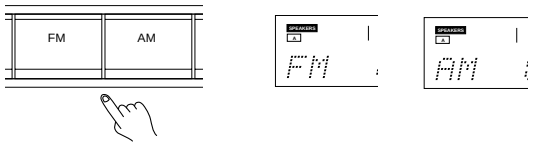
1. **Press the DVD input selector button.**
2. **Press the DIGITAL/ANALOG button until "Digital Input?" appears.**
3. **Press the SMART SCAN CONTROLLER.**
   The digital input setup mode has been set.
   By rotating the SMART SCAN CONTROLLER, select the digital audio input connector "COAX 1," from among "OPT 1," "OPT 2," "COAX 1," "COAX 2" and "– – – – ." Selecting "– – – –"sets analog audio input.
4. **Press the SMART SCAN CONTROLLER.**
   This completes the digital input setup.

To select an input source using the on-screen display, follow steps 1 through 3 described on page 29.

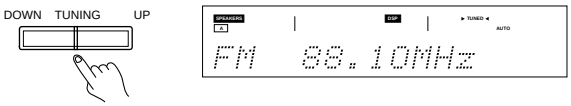
Presetting FM/AM radio stations



1



2



Tuning in a radio station

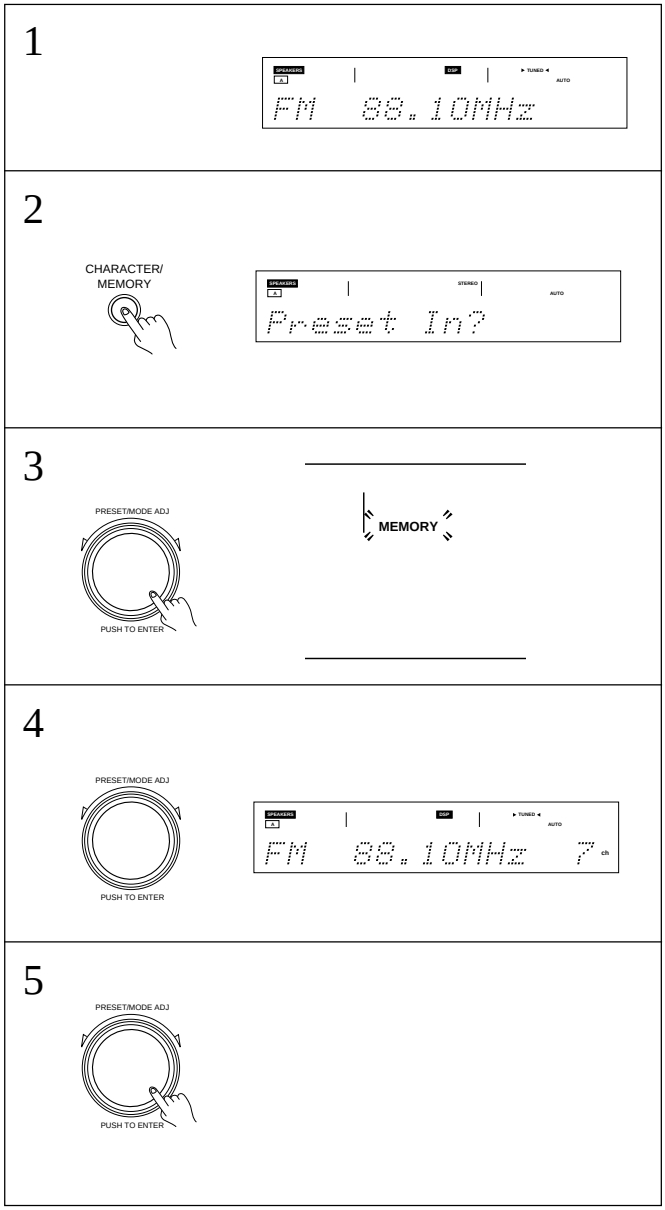
1. **Press the FM or AM button.**
2. **Use the TUNING UP/DOWN buttons to change the frequency.**
   UP.....the frequency increases.
   DOWN..... the frequency decreases.

- The frequency changes in 50 kHz steps in FM and 10 kHz (or 9 kHz) in AM each time you press the TUNING UP/DOWN button.
- In FM, if this button is held continuously for more than 0.5 seconds,the frequencies are scanned automatically (FM auto tuning made).
  When a broadcast is received, scanning stops.
- The European model allows you to receive RDS broadcasts. See page 46 for details.

Listening to a stereo radio station (FM mode)
When you tune in a stereo FM station, the FM STEREO indicator lights up if the signal is sufficiently strong.
If the signal is weak, it may be impossible to tune in to the desired station. In this case, tune in as follows.
Press the FM MUTE/MODE button. The AUTO indicator turns off. At this time, the station will be in mono and interstation noise will be heard. Select the station to which you want to listen.

DISPLAY button
Pressing the DISPLAY button each time will change the indication as follows:
Frequency (preset No.) ↔ Listening mode

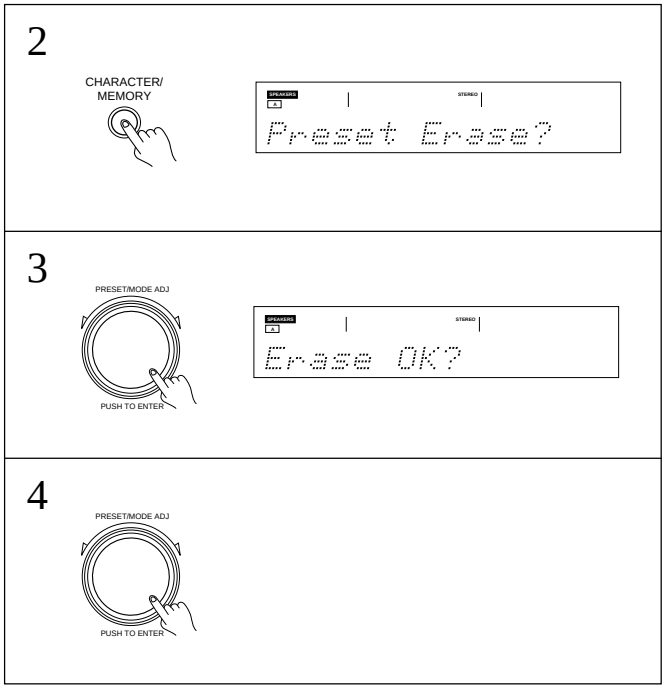
Preset ting FM/AM radio stations



Programming radio stations

1. **Select the frequency that you want to store in the memory.** (See Tuning in a radio station on page 24.)
2. **Press the CHARACTER/MEMORY button.** "Preset In? " appears.
3. **Press the SMART SCAN CONTROLLER.** The "MEMORY" indicator lights up on the display.
4. **Select the desired memory number using SMART SCAN CONTROLLER.**
5. **Press the SMART SCAN CONTROLLER.** The received station will be stored in the specified preset number.

- A total of 40 stations can be stored in the memory.



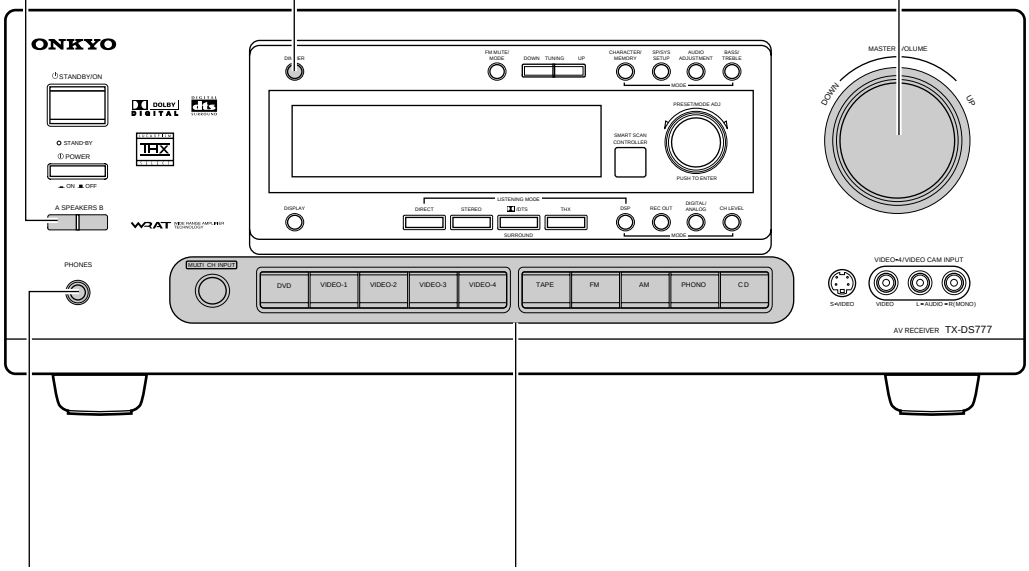
Cancelling preset stations

1. **Select the preset station you wish to remove as explained in the previous section.**
2. **Press the CHARACTER/MEMORY button repeatedly.** "Preset Erase? " appears on the display.
3. **Press the SMART SCAN CONTROLLER.** "Erase OK ? " appears. To stop canceling preset stations, press the CHARACTER/MEMORY button.
4. **Press the SMART SCAN CONTROLLER.**

Selecting an input source

2. Make sure that the SPEAKERS A indicator is lit on the display.
If it is not lit, press the SPEAKERS A button.

4. Adjust the sound volume to an appropriate level.
Rotating the MASTER VOLUME control knob clockwise increases the sound volume.
Rotating the MASTER VOLUME control counterclockwise decreases the sound volume.



④ PHONES

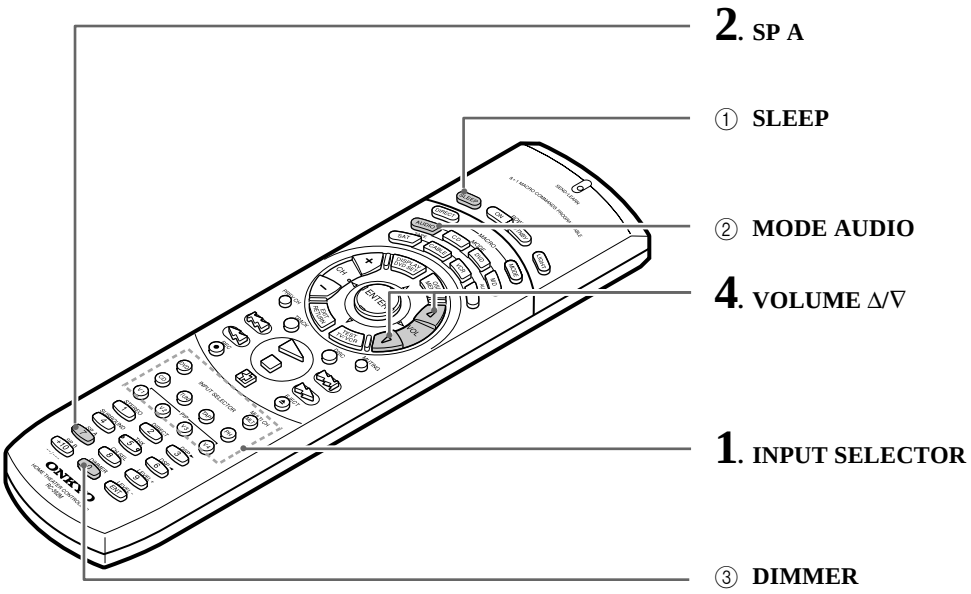
1. Press the desired input selector button or the MULTI CH INPUT button.
The selected source name appears on the display.
If you have selected DVD, CD, VIDEO 1, VIDEO 2, VIDEO 3 or TAPE, perform "Digital Input Setup" (see page 23).

- See page 33 for information on MULTI CH INPUT.
- See page 32 if you have selected FM or AM.

3. Start playing the selected input source.

Note:
When you start playing the DVD player connected to the system, the message may appear such as "PCM 48 kHz" before the current encode format appears. This message is provided by the data from the DVD player, which does not indicate any product failure.

Selecting an input source



① This button allows you to set the sleep timer. (See page 31.)
② Press this button to set the mode in which you can operate the TX-DS777/676.
③ Use this button to change the brightness of the display (normal or dim).
For the European model, this button is not provided on the front panel. Change the display brightness using the remote controller.
④ You can connect stereo headphones to the PHONES jack using a standard stereo plug.
(When you connect headphones, the unit will enter STEREO mode automatically and no sound will be heard from the speakers.)

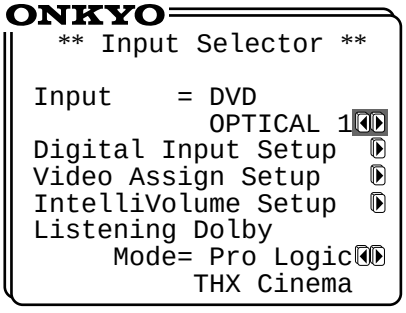
If no sound is heard from the speakers, check the following items:

- When you have selected DVD, CD, VIDEO 1- 3, or TAPE, check the "digital input setup" is correct. (See page 23.)
- Make sure that the input signal format setting is correct. (See page 28,29.)
- The Muting function may be activated. Cancel the Muting function. (See "Muting the sound" on page 31.)
- Make sure that SPEAKERS A is selected. (See "Selecting the speaker system" on page 30.)

Warning:

- Do not play CD-ROM discs that contain computer data as they may damage the speakers when the sound is amplified by the receiver.

3

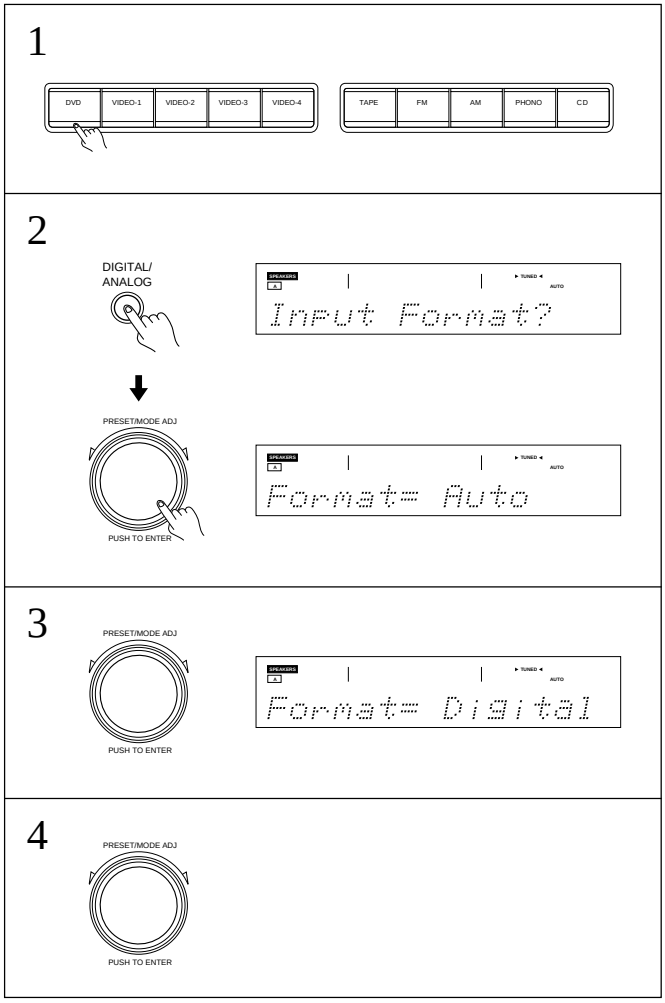


• Selecting an input source using the on-screen display

Instead of using the input selector buttons, you can use on-screen display to select the desired input source.

1. **Press the OSD MENU button.**
2. **Select "Input Selector" and then press the right edge of the ENTER/Cursor button.**
3. **Press the upper or lower edge of the ENTER/Cursor button to select "Input" and then press the right or left edge of the button to select an input source.**
   - When you select DVD, CD, VIDEO 1- 3, or TAPE, set the digital input parameters on the Digital Input Setup screen. (See page 29.)
   - When you have selected TUNER, the currently selected preset number is displayed on the next line.
   - See page 33 for information on MULTICH INPUT.
4. **Press the center of the ENTER/Cursor button, or press the EXIT button, to exit the setup mode.**

Selecting an input source



Setting the input signal format (Digital Input Setup)

The input signal format defaults to "Automatic." Although you can use this default setting normally, you may change it depending on the input signal format.

Ex.) Setting the input signal format for DVD

1. **Press the DVD input selector button.**
2. **Press the DIGITAL/ANALOG button twice to display the digital input format.**
   Press the SMART SCAN CONTROLLER.
   You are now able to select the input signal format.
3. **By rotating the SMART SCAN CONTROLLER, select the input signal format from among "Automatic," "Digital," "Analog," "PCM," and "DTS."**

   Automatic (Automatic detection)
   Input signal format (Dolby Digital, DTS, MPEG, or PCM) used in the selected input source is detected automatically to execute the required decoding process. If no digital signal is input, the input signals to the analog input jacks will be played.

   Digital (Digital input automatic detection)
   Input digital signal format (Dolby Digital, DTS, MPEG, or PCM) used in the selected digital input source is detected automatically to execute the necessary decoding process.

   Analog (Analog audio signal processing)
   The audio signals input from the equipment connected to the analog input jacks are played.

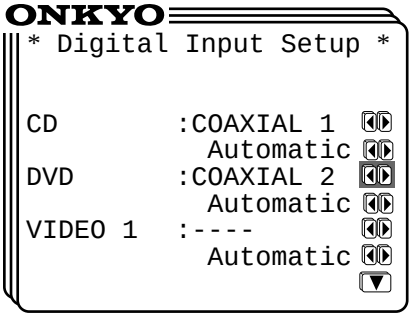
   PCM (PCM signal processing)
   A decoding process is executed only when PCM signals are input.

   DTS (DTS signal processing)
   A decoding process is executed only when DTS signals are input.

Notes:

- In "Automatic" or "Digital" mode, if the CD or LD is fast-forwarded during playback, decoded PCM signals may produce skipped sound. In such cases, change the digital audio format to "PCM."
- If a CD or LD encoded in the DTS format is played back using "PCM" or "Analog" mode, a noise will be produced. This noise could damage the amplifier and speakers. Always use "Automatic", "Digital", or " DTS" mode when playing back DTS-encoded sources.
- MPEG signals can be detected only by models bearing MPEG Multichannel mark on their front panel.
  (TX-DS777: Other than U.S.A. and Canadian models)
  (TX-DS676: European model only)

4. **Press the SMART SCAN CONTROLLER.**
   This completes the digital audio format setup.



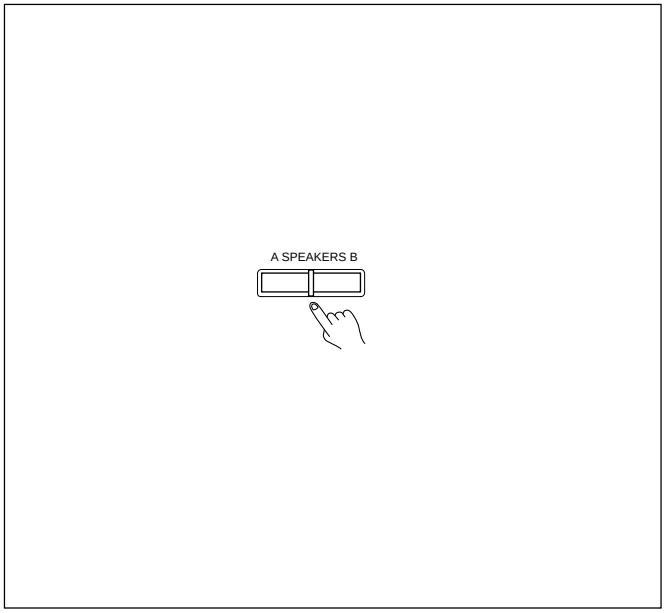
• Using the on-screen display

1. **Press the OSD MENU button.**
2. **Select "Input Selector" and then press the right edge of the ENTER/Cursor button.**
3. **Select "Digital Input Setup" and then press the right edge of the ENTER/Cursor button.**
   The "Digital Input Setup" screen appears. To display VIDEO 2 and later items, press the lower edge of the ENTER/Cursor button.
   - Select the digital input connector from among "OPTICAL 1," "OPTICAL 2," "COAXIAL 1," "COAXIAL 2," and "– – – –."
   - If no digital input connector is assigned to the selected input source, it will be indicated as "– – – –."
   - To enter the setting, move the cursor vertically using the ENTER/Cursor button.
4. **To set the input signal format, move the cursor to the line immediately below the input source and then press the right or left edge of the ENTER/Cursor button.**
   - Select the digital audio format from among "Automatic," "Digital," "Analog," "PCM," and "DTS."
   - Holding down the right or left edge of the ENTER/Cursor button sequentially changes the setting.
5. **Press the center of the ENTER/Cursor button, or press the EXIT button, to exit the setup mode.**

Notes on DTS

1. If you play a CD or LD that supports DTS when the "Analog" or "PCM" setting is selected on the TX-DS777/676, the DTS encoded signal will not be decoded and noise will be output. This noise could damage the amplifier and speakers. Therefore, be sure to select "Automatic", "Digital" or "DTS" and use the digital input jacks (OPTICAL1/2 /COAXIAL1/2) to connect the DTS source.
2. If you play a CD or LD that supports DTS when the "Automatic", or "Digital" setting is selected, you may hear a noise for a short while until the DTS decoder recognizes the DTS encoded signal and starts operating. This is not a malfunction.
3. If you press the PAUSE or SKIP button on the player while playing a DTS source, a short noise may be heard. This is not a malfunction. In such cases, try playing the source in the "DTS" mode.
4. The DTS indicator on the TX-DS777/676 lights up while it plays the DTS source. When playback concludes and the DTS signal transmission stops, the TX-DS777/676 remains in DTS mode and the DTS indicator remains lit. This prevents noise when you operate the PAUSE or SKIP button on the player. Therefore, if the source switches from the DTS signal to the PCM signal immediately, the PCM signal may not be played. In this case, stop the playback of the source on the player for about three seconds, then resume playback.
5. Some CD players and LD players may be unable to play DTS sources correctly even if you connect the player to the TX-DS777/676 digitally. This is because the digital signal has been processed (such as the output level, sampling frequency, frequency response, etc.), and the TX-DS777/676 cannot recognize the signal as DTS data. Therefore, you may hear noise when you play a DTS source while processing the signal.
6. The OUT jacks of the VIDEO-1, VIDEO-2, and TAPE connectors output analog audio signals. Do not record CDs or LDs that support DTS using these jacks. Otherwise, you will record a DTS-encoded signal as noise.

Selecting an input source



Selecting the speaker system

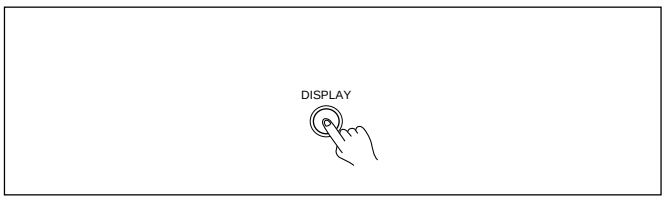
The TX-DS777/676 can connect to two speaker systems. You can switch between the two speaker systems by using the SPEAKERS A and B buttons.

Selecting Speaker system A (SPEAKERS A indicator appears.)
Press the SPEAKERS A button to turn on or off the speakers connected to the FRONT SPEAKERS A, CENTER SPEAKER and SURROUND SPEAKERS terminals.

Selecting Speaker system B (SPEAKERS B indicator appears)
Press the SPEAKERS B button to turn on or off the speakers connected to the FRONT SPEAKERS B terminals.

Notes:

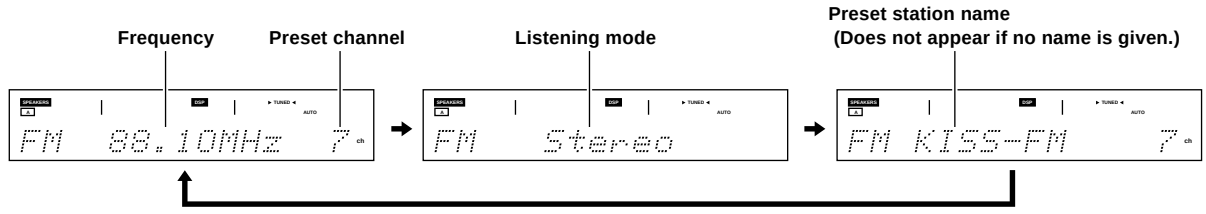
- Be sure to select Speaker system A during surround playback or when multi-channel input is enabled.
- Selecting Surround playback when both speaker systems are on automatically turns off the speaker system B. Similarly, turning on both speaker systems during Surround playback automatically sets the listening mode to STEREO.



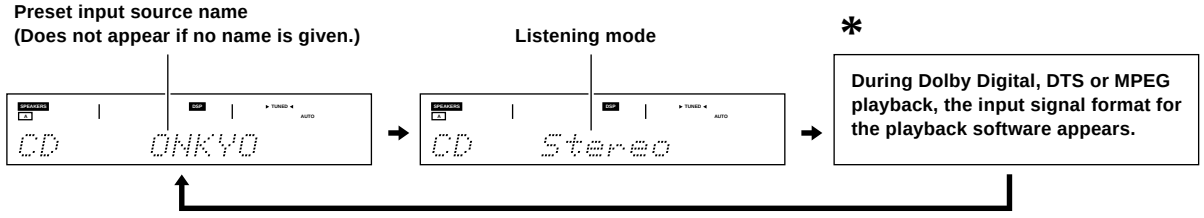
Changing the display

The display changes each time you press the DISPLAY button during playback.
(The European model allows you to receive RDS broadcasts. See page 46 for details.)

FM/AM:



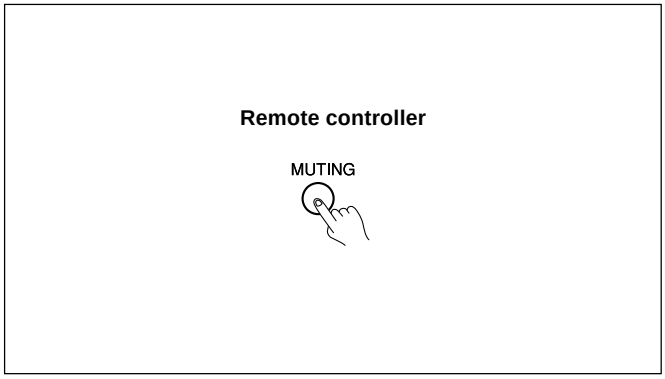
Other sources:


Preset input source name
(Does not appear if no name is given.)
Listening mode
*
During Dolby Digital, DTS or MPEG playback, the input signal format for the playback software appears.
CD ONKYO
CD Stereo

- For analog signals, “Input source name” or “Listening mode” can be selected.
- “Input signal format” returns to “Listening mode” within three (3) seconds.

Input signal format:

- Current sampling frequency displays for PCM signals (ex. “PCM 44.1 kHz”). No correct information displays, however, for the frequencies other than 32, 44.1, 48, and 96 kHz.
- For Dolby Digital/DTS/MPEG, the surround channels information may also display. For example, “Dolby D 3/2” indicates that the source outputs signals for three front channels and two surround channels in Dolby Digital mode.



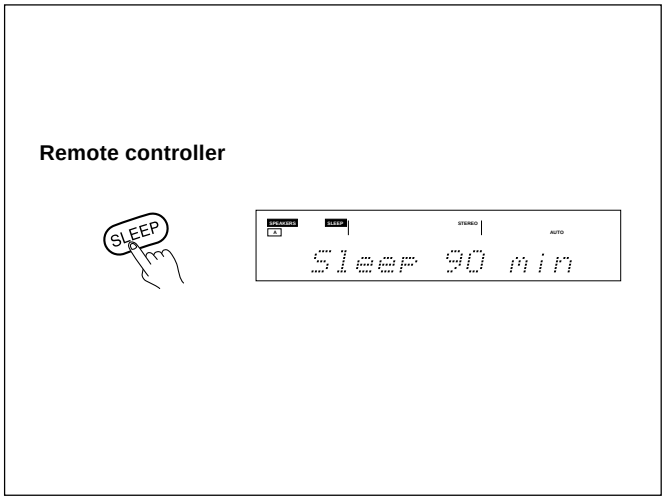
Muting the sound (Muting function, remote controller only)

Use this function to turn off the playback sound immediately. For example, you can use it when you receive a phone call when listening to music.

Press the MUTING button.
The display shows "Muting." Now the sound output to the speakers and headphones stops.

Press the MUTING button again to turn on the sound output.

Note:
The Muting function will be canceled automatically if the receiver is set in the standby mode.



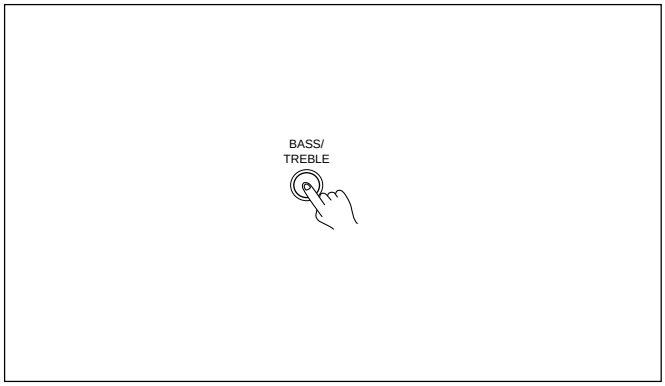
Falling asleep with music (Sleep function, remote controller only)

You can turn off the power to the TX-DS777/676 automatically after a specified time period.

1. **Press the MODE AUDIO button.**
2. **Press the SLEEP button.**
   The display shows “Sleep 90min,” which means the receiver automatically enters the standby mode after 90 minutes.
3. **Press the SLEEP button repeatedly until the desired sleep time is displayed.**
   Each time you press this button, the time decreases by 10 minutes.

To check how much time is left before the unit turns off...
Press the SLEEP button when the Sleep function is enabled.

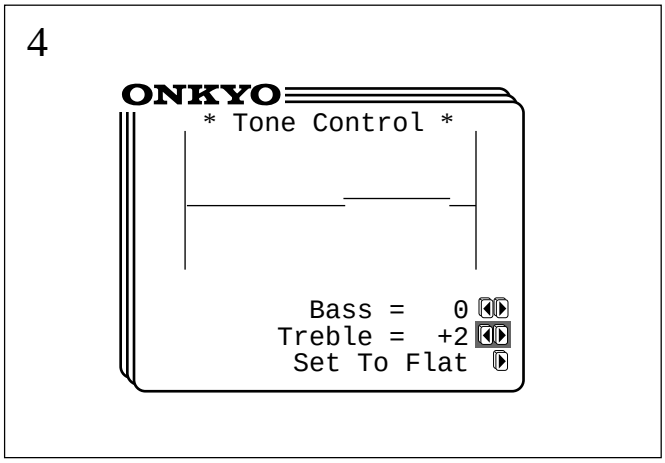
Note:
Pressing the SLEEP button when the Sleep time display shows 10 minutes or less cancels the Sleep function.



Adjusting the tone (Bass and treble adjustment)

The bass and treble levels can be adjusted in the range of +/-12 in units of 2.
You cannot perform this adjustment when the listening mode is “THX” or “Direct.”

1. **Press the BASS/TREBLE button.**
   The display shows "Bass=."
   Rotate the SMART SCAN CONTROLLER to adjust the bass level.
2. **Press the SMART SCAN CONTROLLER.**
   The display shows "Treble=."
   Rotate the SMART SCAN CONTROLLER to adjust the treble level.
3. **Press the SMART SCAN CONTROLLER.**

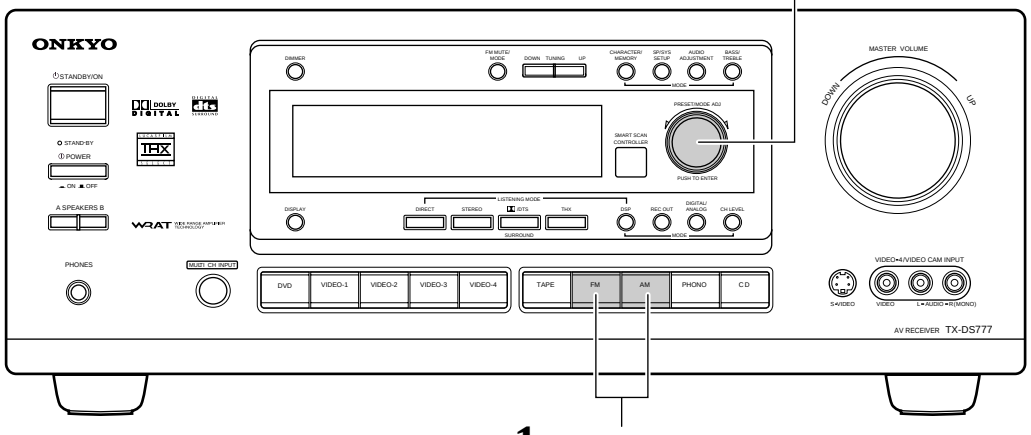


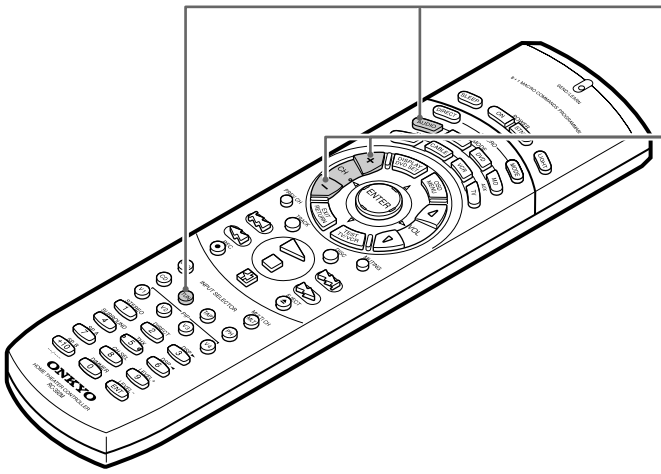
• Adjusting the bass and treble levels with the on-screen display

1. **Press the OSD MENU button.**
2. **Select "Listening mode Setup" and then press the right edge of the ENTER/Cursor button.**
3. **Select "Listening Mode" and then press the right edge of the ENTER/Cursor button**
4. **Select "Tone Control" and then press the right edge of the ENTER/Cursor button.**
   The "Tone Control Setup" screen appears.
   Press the upper or lower edge of the ENTER/Cursor button to select "Bass" or "Treble" and then press the right or left edge of the button to adjust the bass or treble level.
   Select “Set to Flat” and then press the right edge of the ENTER/Cursor button to restore the “flat” bass and treble sound.
5. **Press the center of the ENTER/Cursor button, or press the EXIT button, to exit the setup mode.**

Note:
You cannot perform this adjustment when the listening mode is “Direct” or “THX (TX-DS777 only).”

Selecting a preset station





3,4

```
ONKYO
  ** Input Selector **

Input      = TUNER
 Present No.   =3

Video Assign Setup
IntelliVolume Setup
Listening
     Mode= Orchestra
```

5

```
ONKYO
   * Preset Station *

Preset No.     = 3

1:----      |  6: 531 AM kHz
2:----      |  7:----
3:87.60 FM MHz |  8:----
4:----      |  9:----
5:----      | 10:----
```

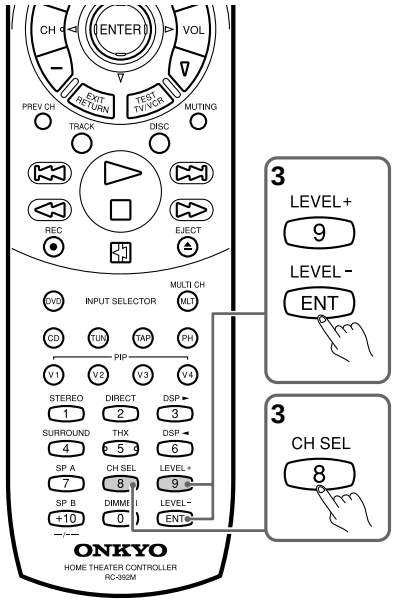
- **Using the on-screen display**

1. **Press the OSD MENU button.**
2. **Select “Input Selector” and then press the right edge of the ENTER/Cursor button.**
3. **Select “Input” and then press the right or left edge of the ENTER/Cursor button to select “TUNER.”**
4. **Select “Preset No.” and then press the right edge of the ENTER/Cursor button**
5. **Press the right or left edge of the ENTER/Cursor button to select the desired preset number.**
6. **Press the center of the ENTER/Cursor button, or press the EXIT button. The on-screen display disappears.**

Playing a multichannel input source

1

3



Setting the MULTI CHANNEL INPUT

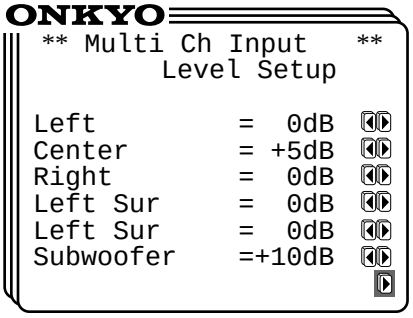
To play back an input source you connected with the MULTI CHANNEL INPUT connectors, you must set the output level of each speaker. Also, note that this output level setting must be performed independent of the speaker levels you set using the test tone (see page 21).
Before playing movie soundtracks etc. in the multichannel input mode, check again that the source is connected properly (see page 9).

1. **Press the MULTI CH INPUT button.**
   If you wish to assign a video source to the multichannel input source, perform the following setting. If you do not wish to do so, proceed to step 3.
   1. Press the SP/SYS SETUP button repeatedly until "Video Assign?" appears and then press the SMART SCAN CONTROLLER.
   2. Rotate the SMART SCAN CONTROLLER to select the video source you wish to assign and then press the SMART SCAN CONTROLLER.
2. **Start playing the component connected to the MULTI CHANNEL INPUT connectors.**
3. **Press the CH SEL button on the remote controller to select the speaker. Then, press the LEVEL (+ or -) button to adjust the output level.**
   At the listening position, adjust the speaker output level so that you can hear the same sound volume from all speakers. For the right front, left front, center, right surround and left surround speakers, the output levels can be adjusted within the range between -12dB ~ +12 dB. The adjustment range of the subwoofer, however, is -30 to +10 dB.

Using the front panel

1. Press the CH LEVEL button.
2. Rotate the SMART SCAN CONTROLLER to select the output level.
   Repeat the above steps until you set the output levels for all speakers.

6



• Using the on-screen display

1. **Press the OSD MENU button.**
2. **Select "Input Selector" and press the right edge of the ENTER/Cursor button.**
3. **Press the right or left edge of the ENTER/Cursor button to select "MULTI CH." Then, press the center of the ENTER/Cursor button.**
   The "Multi Ch Input" screen appears.
4. **If you wish to skip assigning a video source, proceed to step 5.**
   To assign a video source, select "Video Assign Setup" and then press the right edge of the ENTER/Cursor button. When "Video Assign Setup" screen appears, move the cursor (which is already located at "MULTI CH") rightward or leftward to select the video source you wish to assign. When selected, press the center of the ENTER/Cursor button to return to the previous screen.
5. **Select "Level Setup" and press the right edge of the ENTER/Cursor button.**
   "Multi Ch Input Level Setup" screen appears.
6. **Press the upper or lower edge of the ENTER/Cursor button to select the item. Then, press the right or left edge of the button to select the desired parameter.**
   At the listening position, adjust the speaker output level so that you can hear the same sound volume from all speakers. For the right front, left front, center, right surround and left surround speakers, the output levels can be adjusted within the range of -12 dB/+12 dB. The adjustment range of the subwoofer, however, is -30 to +10 dB.
7. **Press the center of the ENTER/Cursor button, or press the EXIT button, to exit the setup mode.**

Using the Listening Modes

Before Using Listening Mode

Listening Modes

The TX-DS777/676's surround sound enables you to enjoy the presence of a movie theater or concert hall in your room.
Before using a listening mode, make sure the Speaker Setup parameters have been set (refer to page 18 ~ 23). Once the parameters have been set, it is not necessary to set them again.
The configuration of the speakers are very important for the surround sound. Refer to "connecting speakers" on page 10.

DOLBY DIGITAL Surround, DTS (Digital Theater System), MPEG Surround

This 5.1-channel digital surround format enables you to individually record and play five full-range (20Hz–20kHz) channels (left and right front, center, two surround channels) plus an LFE channel (Low Frequency Effect) for the low-range effect sound. It will create a realistic sound that could be heard in the theaters and concert halls.
DOLBY DIGITAL: Select this option when you play a DVD video that has a DOLBY DIGITAL mark.
DTS: Select this option when you play a DVD player, video disc, or CD that has a DTS mark.
MPEG(European model only):Select this option when you play a DVD video that has a MPEG Multichannel mark.

DOLBY PRO LOGIC Surround

This surround format consists of four channels (left and right front, center, and monaural surround channels) and emphasizes the center channel. This format is very effective for panning music, conversation, and three-dimensional sound movement output from three front channels. It also simulates the atmosphere and surround effects of the sound reflected from the side and rear walls of the theater. Select this option when you play a VHS, VHS Hi-Fi, laser disc, or DVD video that has a DOLBY SURROUND mark.

Home THX Cinema Surround(TX-DS777 only)

DOLBY DIGITAL/DTS/DOLBY PRO LOGIC/MPEG THX CINEMA
In these modes, Dolby Digital/Dolby Pro Logic/DTS or MPEG Surround is reprocessed using a technique called "Home THX processing." Home THX processing was developed by the surround engineers at Lucasfilm Ltd. for accurate reproduction of soundfields in the home environment as the filmmaker intended, equivalent to those obtained in a well-furnished movie theater. For Home THX Cinema Surround playback, we recommend that you use a THX speaker system certified by Lucasfilm Ltd. (such as Onkyo's THX speaker system HTS SYSTEM-2).

Surround modes incorporating Onkyo's original Surround processing

Surround mode suitable for movie soundtracks
In the following surround modes, additional processing is applied to the Dolby Digital/Dolby Pro Logic/DTS/MPEG Surround.
ACTION
Suitable for movie soundtracks involving a lot of special effect sounds.
MUSICAL
Suitable for musical film soundtracks, where importance is placed on the music, environmental sound, and front image.

Onkyo's listening modes

MONO MOVIE(TX-DS777 only) : This mode is suitable for play back monaural recordings such as old movie soundtracks. The center channel delivers unprocessed original sound, whereas the other channels delivers processed center-channel sound with appropriate reverberation. Thus, you can enjoy monaural sound with the atmosphere of a movie theater.
ORCHESTRA : This mode is suitable for classics and opera music. The center channel is cut and the surround channels are emphasized to widen the stereo image. It will simulate a natural reverberation that can be created in a large hall.
UNPLUGGED : This mode is suitable for acoustic instrumental sounds, vocals, and jazz music. By emphasizing the front stereo image, it will simulate the acoustics in front of the stage.
STUDIO-MIX : This mode is suitable for rock and popular music. Lively sounds with a powerful acoustic image will make you feel as if you are in a club.
5CH STEREO : This mode is useful for background music. The front and surround channels will create a stereo image.
TV LOGIC : This mode offers a realistic acoustics of a TV program being aired in the TV studio. It enhances the entire surround sound and clarity of conversation.
DIRECT : This mode delivers pure sound with the minimum sound quality adjustment and filtration. To attain it, the sound recorded for the Right and Left front channels is output to the Right and Left front speakers only and not output to the subwoofer.
STEREO
Select this mode when you do not wish to use the surround mode. All input sound is output from the front speakers.

- **A system with L/R front and center speakers**
  The following modes are available:
  DOLBY 3 STEREO
  The surround channel sound is output from the left and right front speakers.
  STEREO
  This is a normal stereo mode. Surround mode is cancelled.
  DIRECT
  See the description above.

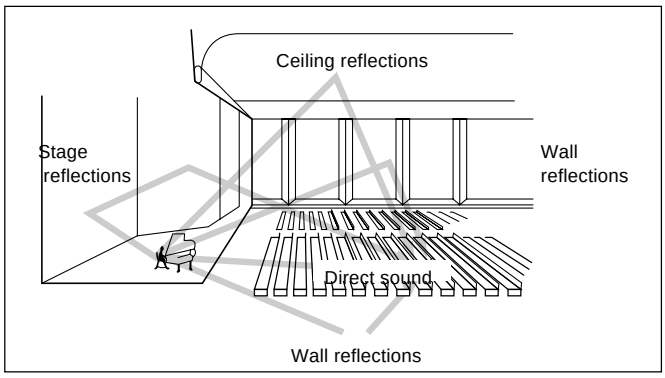
- **A system with L/R front speakers**
  The following mode is available:
  STEREO
  This is a normal stereo mode.
  DIRECT
  See the description above.

DSP (Digital Signal Processor)

The DSP converts the audio signals into digital audio format to create sound reflection. This yields an effect that makes you feel like listening to a live performance.
The following illustration shows how reflected sound reaches the audience in a concert hall. Onkyo's DSP and advanced technologies let you get such a sound reflection effect from the unit.

Note:
The concert hall effect is produced from the reflections and reverberations contained in the original recording. These are converted into reflected sound that is reproduced from four directions. Thus, in some cases an unnatural impression can be conveyed if there are too few reflections in the recording or if the effects in the original recording were produced artificially.

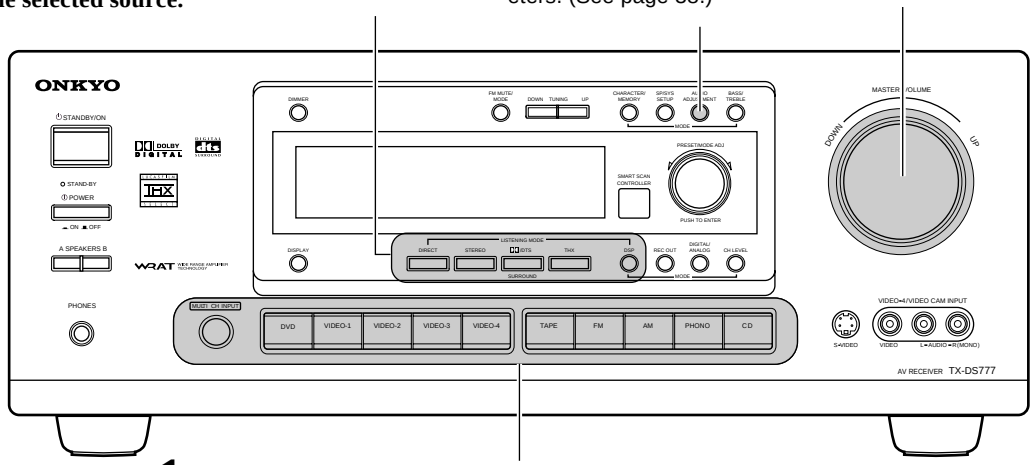
Example: Sound reflection in a concert hall



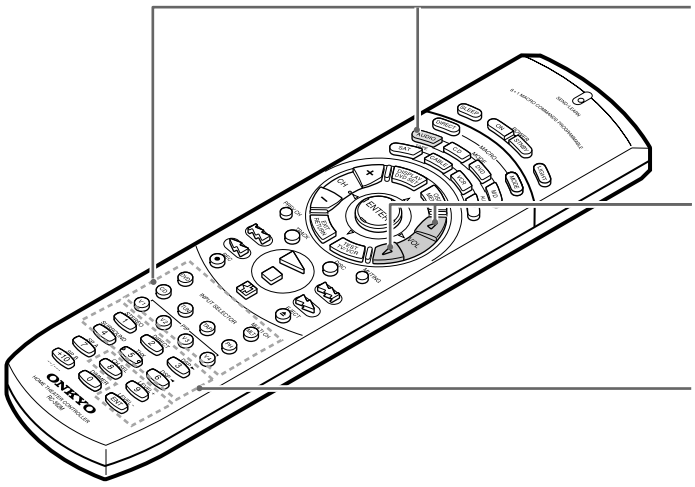
2. Use the LISTENING MODE buttons to select the desired listening mode and then start playing the selected source.

Use these buttons to set the listening mode parameters. (See page 38.)

3. MASTER VOLUME control knob



1. Press one of the INPUT SELECTOR buttons to select the desired sound source.



1. Input selector buttons
Select the desired input source.
To change the input source using the remote controller, press the MODE AUDIO button before pressing the input selector button.

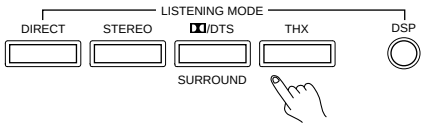
3. VOLUME buttons
Use these buttons to adjust the sound volume.

2. Listening mode button
Use these buttons to select the desired listening mode and then start playing the selected source.

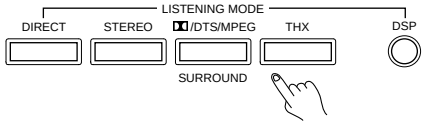
Using the listening modes

The LISTENING MODE button names on the unit may vary depending on the model.

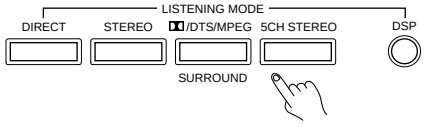
TX-DS777 USA&Canadian model



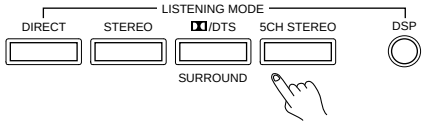
TX-DS777 Others



TX-DS676 European model



TX-DS 676 Others



Using the listening modes

Pressing the DSP button and then rotating the SMART SCAN CONTROLLER lets you view all the listening modes. You can select directly from four listening modes. The mode you can select may vary depending on where the unit is purchased.

DIRECT : Press this button if you wish to enjoy pure direct sound.

STEREO : Press this button to listen to a normal stereo audio.

/DTS/MPEG(/DTS) : Press this button when you wish to play Dolby ProLogic, Dolby Digital, DTS Surround, (or MPEG) software.

5CH STEREO(TX-DS676) : Press this button to play 5-ch stereo sound (see the previous page).

THX(TX-DS777) : Press this button when THX speakers are used.

Notes:

- To play a Dolby digital/DTS or MPEG Surround source, you need to connect the sound source with a correct digital input connector.
- When you play the Dolby digital/DTS or MPEG Surround source, the receiver automatically enters Dolby Digital Surround (stereo)/DTS or MPEG Surround (stereo) mode respectively.

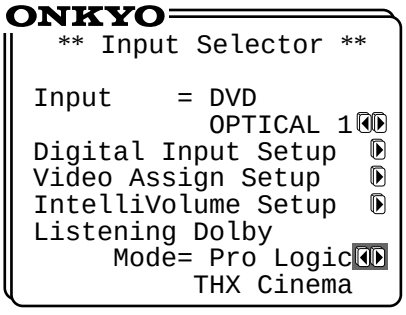
THX

Movies which have been encoded in Dolby Digital, DTS, MPEG and Dolby Pro Logic can all benefit by activating the THX mode. THX should be activated only when watching movies which were mixed for playback in large movie theatre environments. THX need not be activated for music, movies that were made especially for television or shows such as sports programming, talk shows, etc. This is because they were mixed in a small room environment.

Dial norm

Dialogue Normalization (Dial Norm) is a feature of Dolby Digital. When playing back software which has been encoded in Dolby Digital, sometimes you may see a brief message in the front panel display which will read Dial Norm XdB (X being a numeric value). Dialogue Normalization serves to let you know if the source material has been recorded at a higher or lower level than usual. For example, if you see the following message: Dial Norm +4dB in the front panel display, to keep the overall output level constant just turn down the volume control by 4dB. In other words, the source material that you are listening to has been recorded 4dB louder than usual. If you do not see a message, then no adjustment of the volume control is necessary.

3



• Selecting an Listening mode using the on-screen display

Instead of using the Listening mode buttons, you can use on-screen display to select the desired input source.

1. **Press the OSD MENU button.**
2. **Select “Input Selector” and then press the right edge of the ENTER/Cursor button.**
3. **Press the upper or lower edge of the ENTER/Cursor button to select “Listening mode” and then press the right or left edge of the button to select an listening mode.**
4. **Press the center of the ENTER/Cursor button, or press the EXIT button, to exit the setup mode.**

Using the listening modes

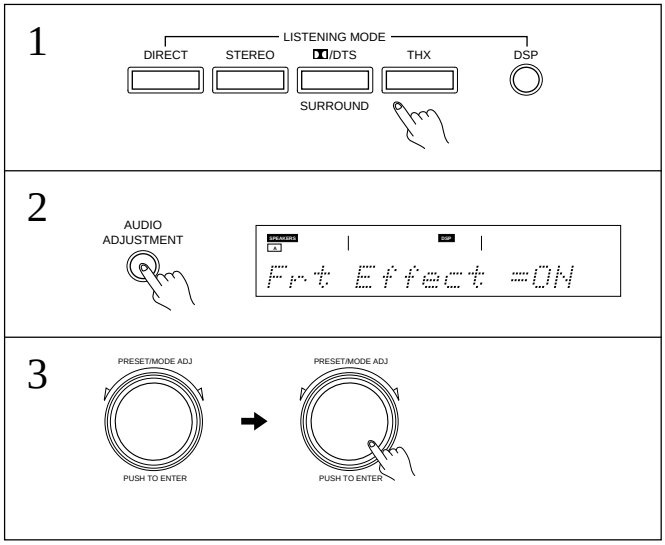
Input sources and listening modes

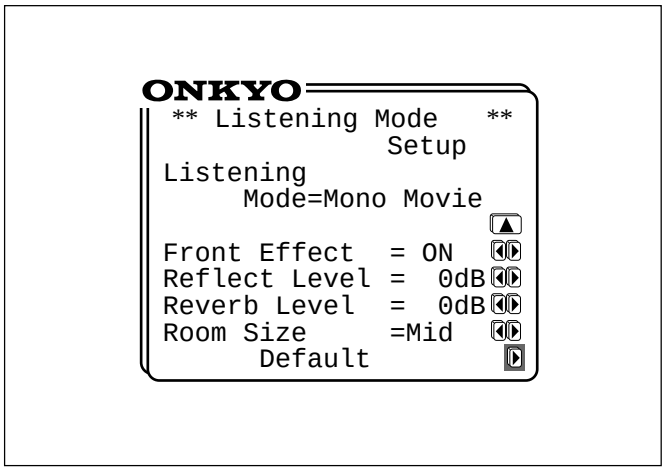
The available listening modes vary depending on the input source.
The following table shows each input source and the available listening modes.
*Available for TX-DS676.

Input source / Listening mode		analog/PCM	Dolby Digital		DTS	MPEG	
			3/2ch	2/0ch		3/2ch	2/0ch
Stereo (3 Stereo)	*	O	O	O	O	O	O
Dolby Pro Logic	*	O					
THX Cinema		O					
Action		O					
Musical		O					
Mono Movie		O					
Orchestra	*	O					
Unplugged	*	O					
Studio-Mix	*	O					
TV Logic	*	O					
5ch stereo	*	O					
Direct	*	O					
Dolby Digital	*		O				
THX Cinema			O				
Action			O				
Musical			O				
Mono Movie			O				
Orchestra			O				
Unplugged			O				
Studio-Mix			O				
TV Logic			O				
Dolby Digital Pro Logic	*			O			
Action				O			
Musical				O			
DTS/MPEG	*				O	O	
THX Cinema					O	O	
Action					O	O	
Musical					O	O	
Mono Movie					O	O	
Orchestra					O	O	
Unplugged					O	O	
Studio-Mix					O	O	
TV Logic					O	O	
MPEG Pro Logic	*						O
Action							O
Musical							O

- For Dolby Digital and MPEG, only typical input signals are shown here.
  3/2ch, for example, means that the source outputs signals for three front channels and two surround channels.
  The available listening modes vary depending on the input signal.
- The table shown above lists the input sources and listening modes available when the speakers are installed in a full configuration (right/left front, center, and right/left surround speakers).Without surround speakers, set the listening mode to “STEREO (3 Stereo)” or “Direct.”

Setting the listening mode parameters





How to set the listening mode parameters

To set the listening mode parameters, you first press the AUDIO ADJUSTMENT button to select the item and then rotate the SMART SCAN CONTROLLER to select the parameter.

1. **Select the listening mode for which you wish set parameters.**
2. **Press the AUDIO ADJUSTMENT button until "Frt Effect=..." appears.**
   The parameters you can set vary depending on the selected listening mode. You can press this button to display the available parameters one by one.
3. **Rotate the SMART SCAN CONTROLLER to change the parameter setting.**
4. **Press the SMART SCAN CONTROLLER.**

• Using the on-screen display

If you use the on-screen display to set a listening mode, you can set the relevant parameters on the same screen.

1. **Press the OSD MENU button.**
2. **Select the "Listening Mode" and press the right edge of the ENTER/Cursor button.**
3. **Press the upper or lower edge of the ENTER/Cursor button to select "Listening Mode."**
   Then, press the right or left edge of the button to select the listening mode.
   The parameter items available for the selected listening mode are displayed.
4. **Press the upper or lower edge of the ENTER/Cursor button to select the item and then press the right or left edge of the button to set a value.**
   If you select "LFE Level," "Setup," etc., an additional screen will appear. Set the value for each item in the similar manner.
5. **Press the center of the ENTER/Cursor button, or the EXIT RETURN button, to exit the setup mode.**

Default: Select "Default" to reset each parameter to the factory-set default.

Parameter / Listening mode	Re-EQ*	LateNight*	LFE level*	Front Effect*	Reflect Level*	Reverb Level	Room Size
Stereo(3 Stereo) *							
Dolby Pro Logic *	O						
THX Cinema	O						
Action/Musical	O			O	O	O	O
Mono Movie	O			O	O	O	O
Orchestra/Unplugged/ Studio-Mix/TV Logic *	O			O	O	O	O
5ch Stereo *							
Direct *							
Dolby Digital *	O	O	O				
THX Cinema	O	O	O				
Action/Musical	O	O	O	O	O	O	O
Mono Movie/Orchestra/ Unplugged/Studio-Mix/ TV Logic	O	O	O	O	O	O	O
Dolby Digital Pro Logic *	O	O	O				
Action/Musical	O	O	O	O	O	O	O
DTS/MPEG *	O		O				
THX Cinema	O		O				
Action/Musical	O		O	O	O	O	O
Mono Movie/Orchestra/ Unplugged/Studio-Mix/ TV Logic	O		O	O	O	O	O
MPEG Pro Logic *	O		O				
Action/Musical	O		O	O	O	O	O

*Available for TX-DS676.
(The detailed information on the listening mode parameters is provided on the next page.)

Setting the listening mode parameters

Listening mode parameters

• Re-EQ (Cinema Re-Equalization)

Select “ON” or “OFF.”

The Re-EQ function is effective except for “5CH STEREO” and “DIRECT.”
Re-Equalization takes the edginess or “brightness” out of your home cinema sound, compensating for the fact that sound mixed for theaters will sound too bright when played back through speakers in the home environment.

• Late Night

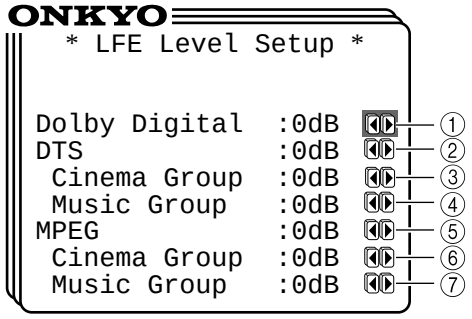
Select “High,” “Low,” or “OFF.”

Cinema sound has a vast dynamic range and therefore, to hear quiet sound such as environmental sound and human conversations, it must be played back at large sound volumes. When this parameter is set to “High” or “Low,” however, the dynamic range of the sound is narrowed down to allow you to hear easily minute sound at low volumes. This function is useful if you wish to play a movie at low volumes, especially in midnight.

Notes:
- The depth of the Late Night effect is determined by Dolby Digital software. Some sounds may produce no or little effect.
- The Late Night function is effective only on Dolby Digital encoded software.

• LFE (Low Frequency Effect) level

This parameter is used to adjust the level of LFE in Dolby Digital, (MPEG,) or DTS software. When this parameter is selected, the following screen appears.



***⑤, ⑥, and ⑦ are provided for European model only.**

1. **Adjust this parameter when the source is “Dolby Digital.”**
   Select “-∞ dB,” “-20dB,” “-10dB,” “or “0dB.”
   The recommended setting is “0dB.”
2. **Adjust this parameter when the source is “DTS” and the surround mode is “DTS.”**
   Select “-∞ dB,” “-20dB,” “0dB,” or “+10dB.”
   The recommended setting is “+10dB.”
3. **Adjust this parameter when the source is “DTS” and the listening mode is “DTS Action,” “DTS Musical,” “DTS THX,” or “DTS Mono Movie.”**
   Select “-∞ dB,” “-20dB,” “-10dB,” or “0dB.”
   The recommended setting is “0dB.”
4. **Adjust this parameter when the source is “DTS” and the listening mode is “DTS Orchestra,” “DTS Unplugged,” “DTS Studio-Mix,” or “DTS TV Logic.”**
   Select “-∞ dB,” “-10dB,” “0dB,” or “+10dB.”
   The recommended setting is “+10dB.”
5. **Adjust this parameter when the source is “MPEG” and the surround mode is “MPEG.”**
   Select “-∞ dB,” “-20dB,” “0dB,” or “+10dB.”
   The recommended setting is “+10dB.”
6. **Adjust this parameter when the source is “MPEG” and the listening mode is “MPEG Action,” “MPEG Musical,” “MPEG THX,” or “MPEG Mono Movie.”**
   Select “-∞ dB,” “-20dB,” “-10dB,” or “0dB.”
   The recommended setting is “0dB.”
7. **Adjust this parameter when the source is “MPEG” and the listening mode is “MPEG Orchestra,” “MPEG Unplugged,” “MPEG Studio-Mix,” or “MPEG TV Logic.”**
   Select “-∞ dB,” “-10dB,” “0dB,” or “+10dB.”
   The recommended setting is “+10dB.”

Note:
- The LFE level setting is effective only on Dolby Digital, DTS, or MPEG software.
  With some software, this setting may produce no effect.
- The MPEG setting is possible only in limited regions.

• Front Effect

Select “ON” or “OFF.”

Some live recordings contain acoustic reverberation. When you play these sources, more reverberation will be applied by the DSP, creating too much reverb effects and the sound loses its frame or presence. In this case, set FRONT EFFECT to OFF. No reverberation from the DSP will be applied to the sound output from three front channels, and the sound source will be played as it is without any further reverberation.

Note:
The Front Effect function is effective only on the Action, Musical, MonoMovie, Orchestra, Unplugged, Studio-Mix, and TV Logic sound.

• Reflect Level

Set a value between -5 and +5 dB, in units of 1 dB.

You can adjust the strength of direct sound reflection, depending on the playback source material, your audio room conditions, and so on.

• Reverb Level (TX-DS777 only)

Set a value between -5 and +5 dB, in units of 1 dB.

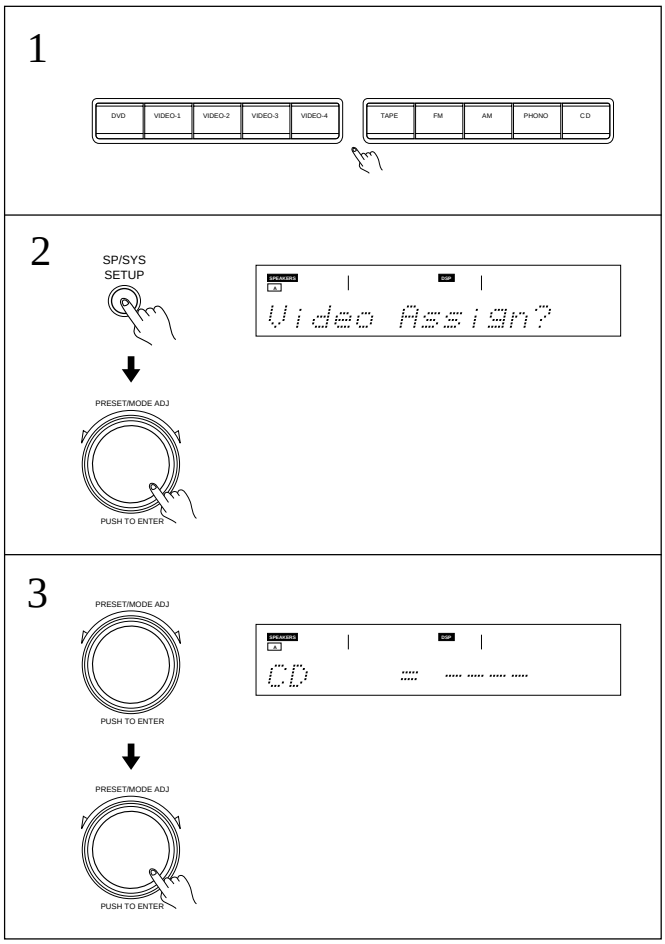
Adjust the depth of acoustic reverberation, depending on the playback source material, your audio room conditions, and so on.

• Room Size (TX-DS777 only)

Set “Large,” “Mid,” or “Small.”

Change the virtual hall size set for each surround mode.

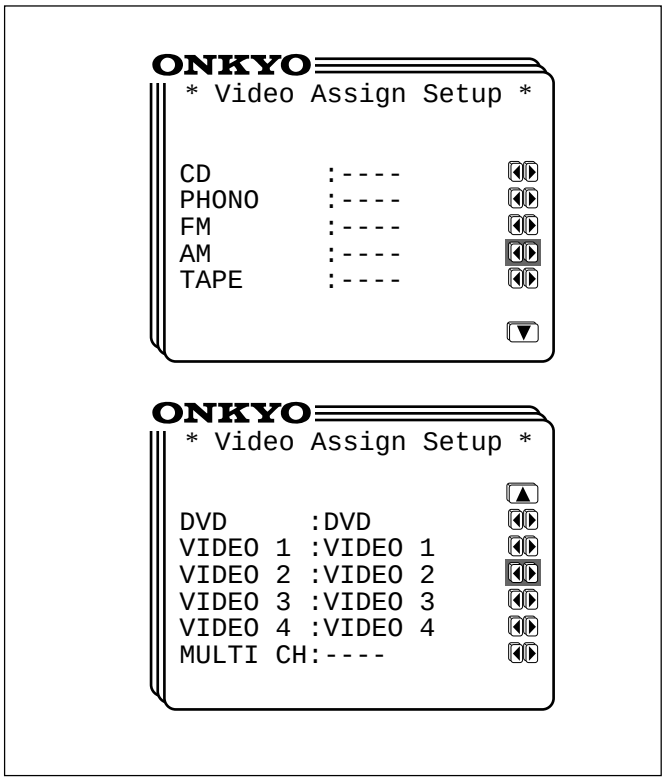
Assigning a video source to each audio input source



Assigning a video source to each audio input source (video Assign Setup)

You can assign a video source to audio input sources such as CD. By doing so, you can play a CD or other audio source while showing the assigned video images on the TV.

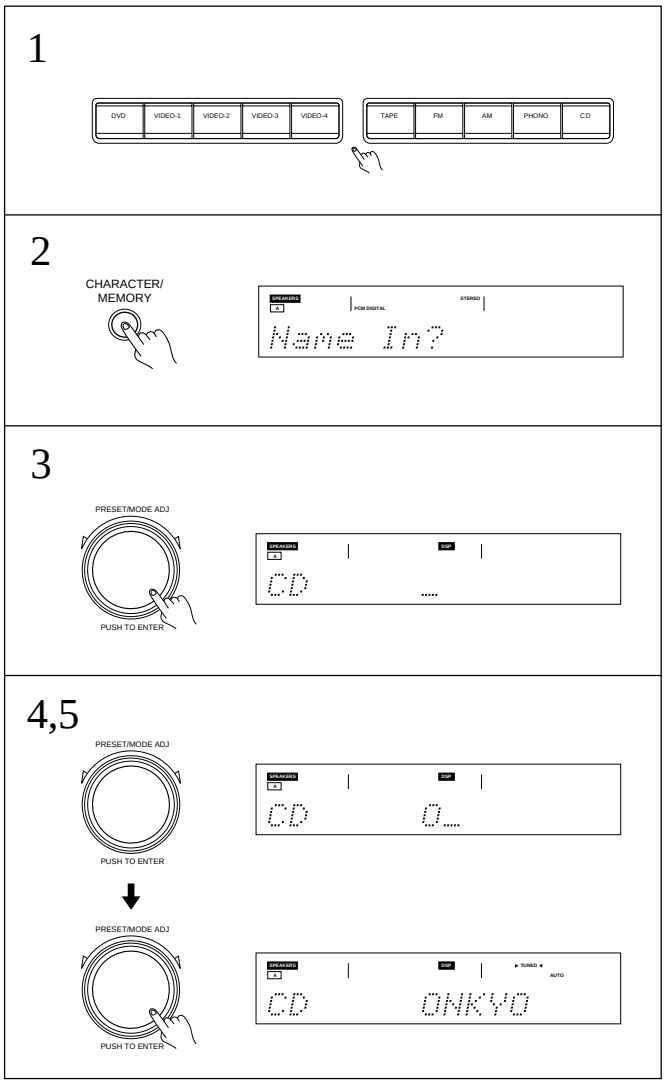
1. **Select the desired audio input source by pressing the corresponding input selector button.**
2. **Press the SP/SYS SETUP button repeatedly until "Video Assign?" is displayed. Then Press the SMART SCAN CONTROLLER.**
   The video assign mode has been set.
3. **Rotate the SMART SCAN CONTROLLER to select the video source you wish to assign.**
   You can select one from 6 video sources, DVD, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, and ---- (None).
   Press the SMART SCAN CONTROLLER.



• Using the on-screen display

1. **Press the OSD MENU button.**
2. **Select "Input Selector" and then press the right edge of the ENTER/Cursor button.**
3. **Select "Video Assign Setup" and then press the right edge of the ENTER/Cursor button.**
   "Video Assign Setup" screen is displayed.
   When the cursor is on "TAPE," you can press the lower edge of the ENTER/Cursor button to display additional items.
   When the cursor is on "DVD," you can press the upper edge of the ENTER/Cursor button to display the previous items.
4. **Press the upper or lower edge of the ENTER/Cursor button to select the audio input source and then press the right or left edge of the button to assign a video source.**
   You can select one from 6 video sources, DVD, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, and ---- (None).
5. **Press the center of the ENTER/Cursor button, or press the EXIT button, to exit the setup mode.**

Giving a name to each input source and preset radio station



Giving a name to each input source

You can give a desired name to each input source (DVD, CD, VIDEO 1-4, TAPE).

Characters available for name entry
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z a b c d e f g h i j k l m n o p q r s t u v w x y z ( ) < > [ ] & + - * / = ? ! : ; ' " . , 0 1 2 3 4 5 6 7 8 9 _ (_ space)

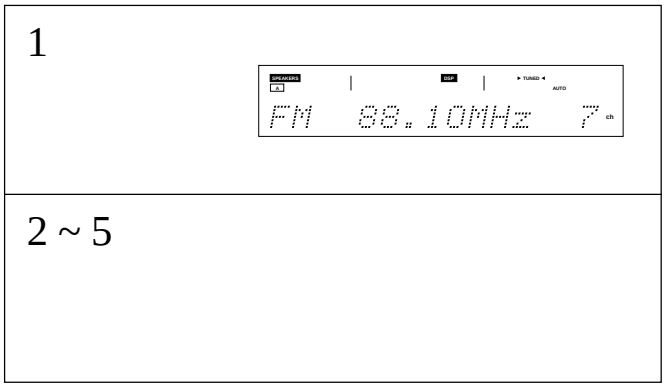
1. **Select the source to which you wish to enter a name by pressing the corresponding input selector button.**
2. **Press the CHARACTER/MEMORY button.**
   "Name In ?" appears.
3. **Press the SMART SCAN CONTROLLER.**
   Now you can enter a name.
4. **Rotate the SMART SCAN CONTROLLER to select the character you wish to enter and then press the SMART SCAN CONTROLLER.**
5. **Enter a name of up to 8 characters.**
   The name entry mode will be canceled automatically when you finish entering 8 characters.
   If you enter a name of shorter than 8 characters, press the SMART SCAN CONTROLLER repeatedly until the initial display is restored.

• To change a name...

1. **Select the source whose name you wish to change by pressing the corresponding input selector button.**
2. **Press the CHARACTER/MEMORY button.**
   "Name In ?" appears.
3. **Press the SMART SCAN CONTROLLER.**
   Now you can change the name.
4. **Press the TUNING DOWN/UP button to select the character you wish to change.**
5. **Rotate the SMART SCAN CONTROLLER to select the character you wish to enter and then press the SMART SCAN CONTROLLER.**
   The name entry mode will be canceled automatically when you finish entering 8 characters.

• To erase a name...

1. **Select the source whose name you wish to erase by pressing the corresponding input selector button.**
2. **Press the CHARACTER/MEMORY button twice.**
   "Name Erase ?" appears.
3. **Press the SMART SCAN CONTROLLER.**
   "Erase OK ?" appears.
   If the name cannot be erased, press the CHARACTER/MEMORY button.
4. **Press the SMART SCAN CONTROLLER.**
   The entire name has been erased.

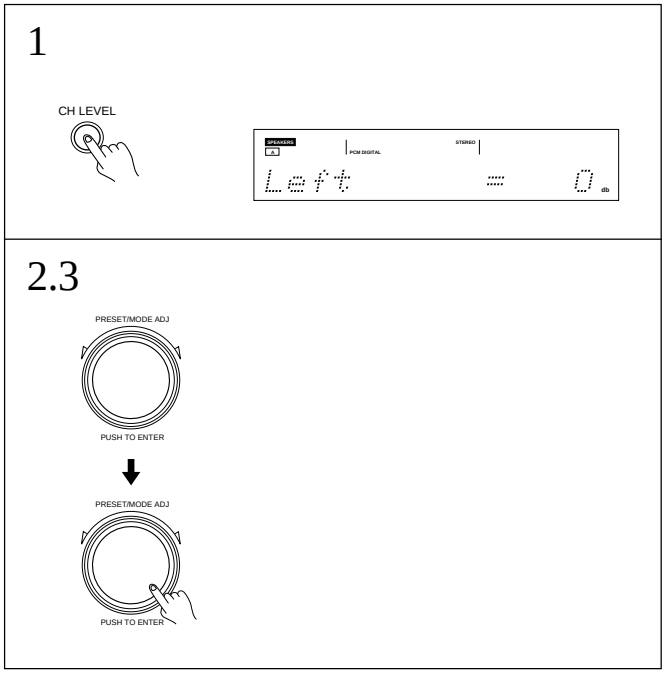


Giving a name to each preset radio station

You can give a desired name to each preset radio station.

1. **Select the preset radio station to which you wish to enter a name.**
   Then, follow steps 2 through 5 of the above procedure "Giving a name to each input source" to give a name to each preset radio station.

Adjusting the output level of each speaker while listening to it



Fine-tuning the output level of each speaker

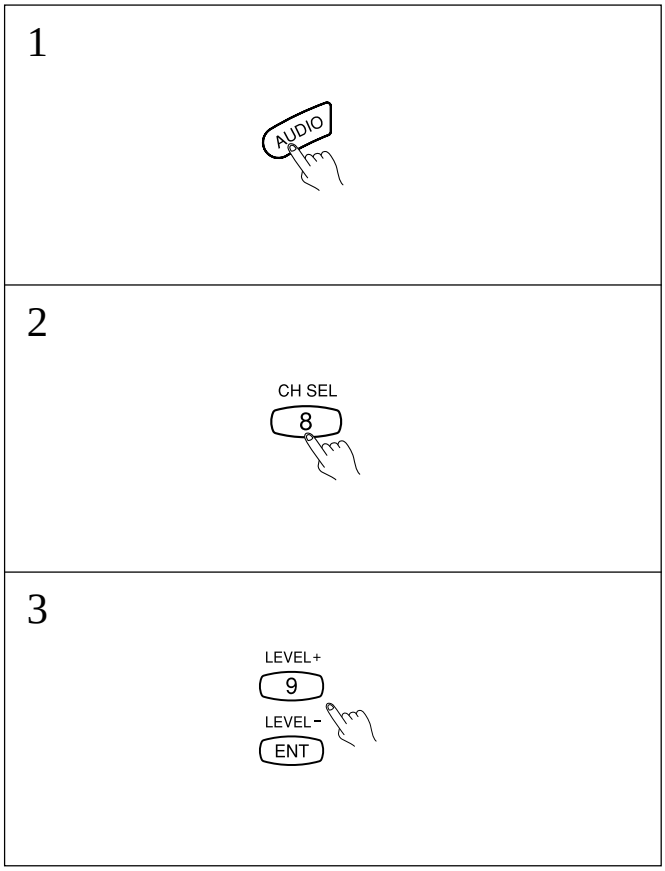
You can fine-tune the output level of each speaker according to your taste.

The output levels you set as below will be lost once the unit is in stand-by mode. (The speaker levels you set using the test tone will be restored.)

1. **Press the CH LEVEL button.**
   The output level of the Left front speaker is displayed.
2. **Rotate the SMART SCAN CONTROLLER to select the output level and then press the SMART SCAN CONTROLLER.**
   You can now adjust the output level of the center speaker.
3. **Repeat the operation described in step 2.**
   Set the speaker level of each speaker in the following sequence:
   Left (Left front)→Center→Right (Right front)→R-sur (Right surround)→L-sur (Left surround)→Subwoofer (Subwoofer)
   You can adjust the output level of each speaker in the range of -12 to +12 dB.
   The adjustment range of the subwoofer is -30 to +10 dB.

To use the above setting from now on...

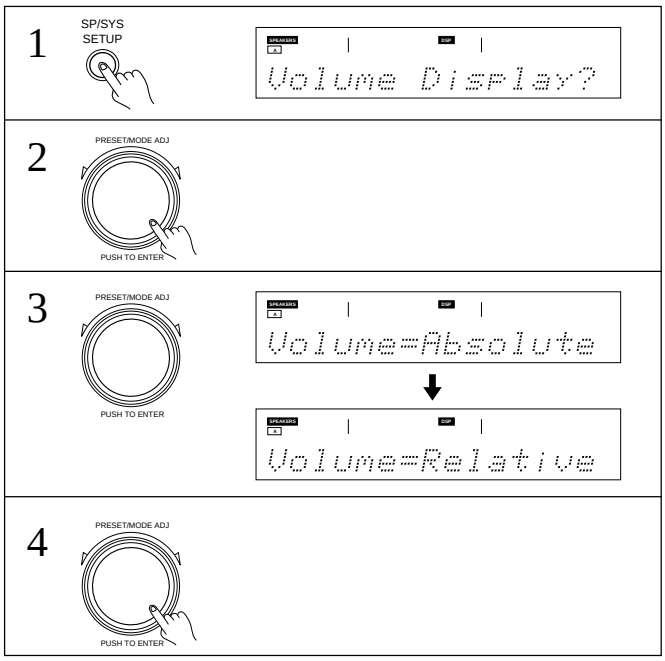
The above setting will be overwritten by the speaker output levels you set through the test tone, once you press the TEST button on the remote controller.



• Adjusting the output level of each speaker using the remote controller

1. **Press the MODE AUDIO button.**
2. **Press the CH SEL button repeatedly to select the speaker whose output level you wish to fine-adjust.**
   Each time you press the CH SEL button, the output level of the speaker displayed is changed in the following sequence:
   Left (Left front)→Center →Right (Right front)→R-sur (Right surround)→L-sur (Left surround)→Subwoofer (Subwoofer)
3. **Press the LEVEL + or - button repeatedly to fine-adjust the output level.**
   You can adjust the output level of each speaker in the range of -12 to +12 dB.
   The adjustment range of the subwoofer is -30 to +10 dB.

Other setup operations



Volume display method setup

You have the option of displaying your volume settings either of two ways:

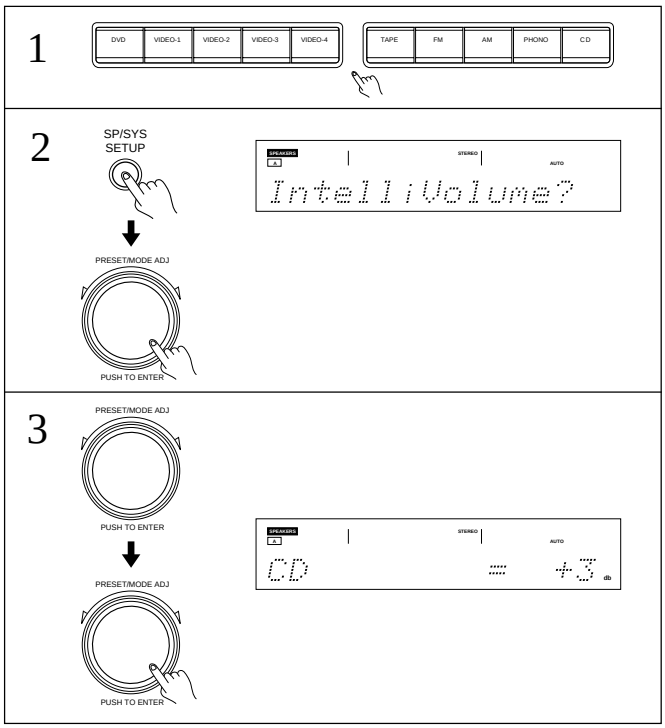
- ABSOLUTE — on a scale of MIN (0: no sound) to MAX (80: extremely sound);

  or

- RELATIVE — on a scale which is measured "plus or minus," relative to the calibrated reference volume.
  With either settings, the volume level changes in the same increment.

ABSOLUTE: MIN, 1, 2, 3, 4, ..., 77, 78, 79, MAX
RELATEVE: –∞, –61, –60, –59, ..., +16, +17, +18 (dB)

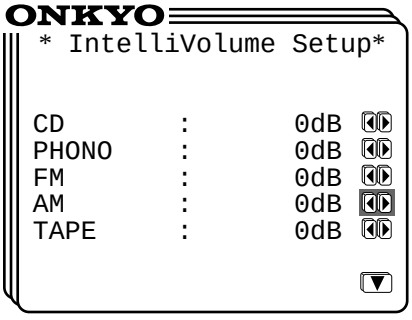
1. **Press the SP/SYS SETUP button repeatedly until "Volume Display?" appears.**
2. **Press the SMART SCAN CONTROLLER.**
   Now you can change the sound volume display method.
3. **Rotate the SMART SCAN CONTROLLER to select "Absolute" or "Relative."**
4. **Press the SMART SCAN CONTROLLER.**



IntelliVolume setup

The output level of each component or source connected to your receiver varies, even when the sound volume setting is same. You must therefore readjust the sound volume by yourself each time you change the input source, because the same volume setting causes too loud or too quiet sound. To prevent this inconvenience, you can set a correction value for each level of input source in advance.

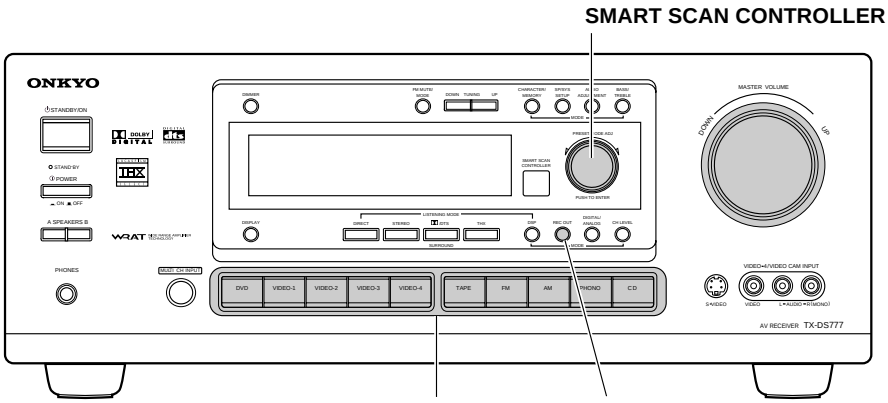
1. **Select the source to which you wish to set IntelliVolume by pressing the corresponding input selector button.**
2. **Press the SP/SYS SETUP button repeatedly until "IntelliVolume?" appears. Press the SMART SCAN CONTROLLER.**
   Now you can perform IntelliVolume setup.
3. **While listening to playback sound, rotate the SMART SCAN CONTROLLER to select a desired value.**
   The setting is possible in the range between -12 ~ +12 dB,in units of 1 dB.
   Press the SMART SCAN CONTROLLER.

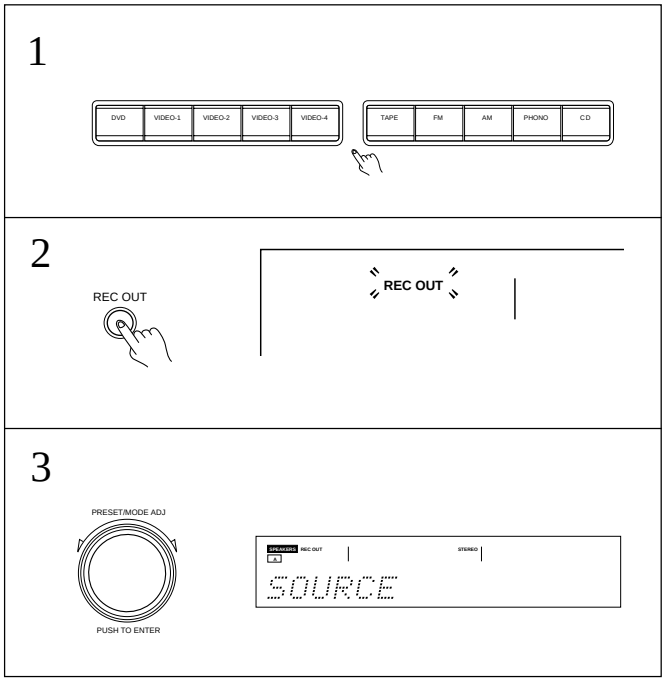


• Using the on-screen display

1. **Press the OSD MENU button.**
2. **Select "Input Selector" and then press the right edge of the ENTER/Cursor button.**
3. **Select "IntelliVolume Setup" and then press the right edge of the ENTER/Cursor button.**
   The IntelliVolume Setup screen appears. When the cursor is on "TAPE," you can press the lower edge of the ENTER/Cursor button to display additional items.
4. **Press the upper or lower edge of the ENTER/Cursor button to select the input source and then press the right or left edge of the button to select a value**
   Select a desired adjustment value for each input source. The setting is possible in the range between -12 ~ +12 dB, in units of 1 dB.
5. **Press the center of the ENTER/Cursor button, or press the EXIT button, to exit the setup mode.**

Recording a source





Recording a source while listening to music or a movie

1. **Select the source you wish to play (recording source) by pressing the corresponding input selector button.**
   See step 1 of “Selecting an input source” (page 26).
2. **Press the REC OUT button.**
   The REC OUT indicator blinks for 8 seconds.
   While the REC OUT indicator is blinking, rotate the SMART SCAN CONTROLLER until "SOURCE" appears.

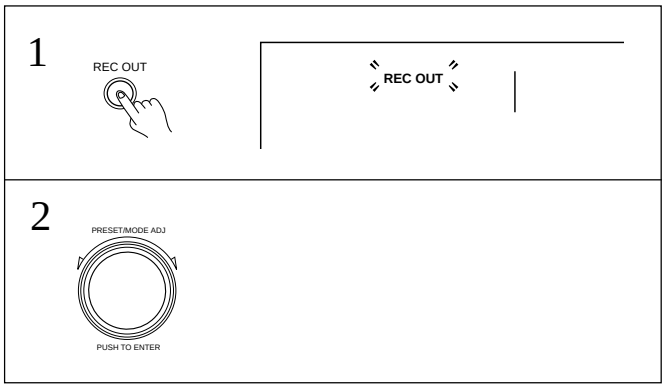
Notes:

- The digital input signals assigned to the input source you selected using the input selector buttons will be output to the DIGITAL OUTPUT terminal. There are some restrictions on digital recording. When making digital recordings, consult the instruction manual that came with your digital recording equipment (such as MD recorder or DAT deck) to know what restrictions are imposed.
- You cannot select the source connected to the MULTI CHANNEL INPUT connectors. Even if you press the MULTI CH INPUT button in step 1 above, the signals will be output to the L and R output jacks of the input source you selected most recently.

4. **Start recording on the recorder connected to the TAPE, VIDEO-1, VIDEO-2 jacks. Then, start playing the source component you selected in step 1.**

Notes:

- If you change the input source during recording, you will record the signals from the newly selected input source.
- You cannot record the surround effects.



Recording from on audio /video source

1. **Press the REC OUT button**
   The REC OUT indicator binks for 8 seconds
2. **While the REC OUT indicator is blinking, rotate the SMART SCAN CONTROLLER to select the desired recording source.**

Notes:

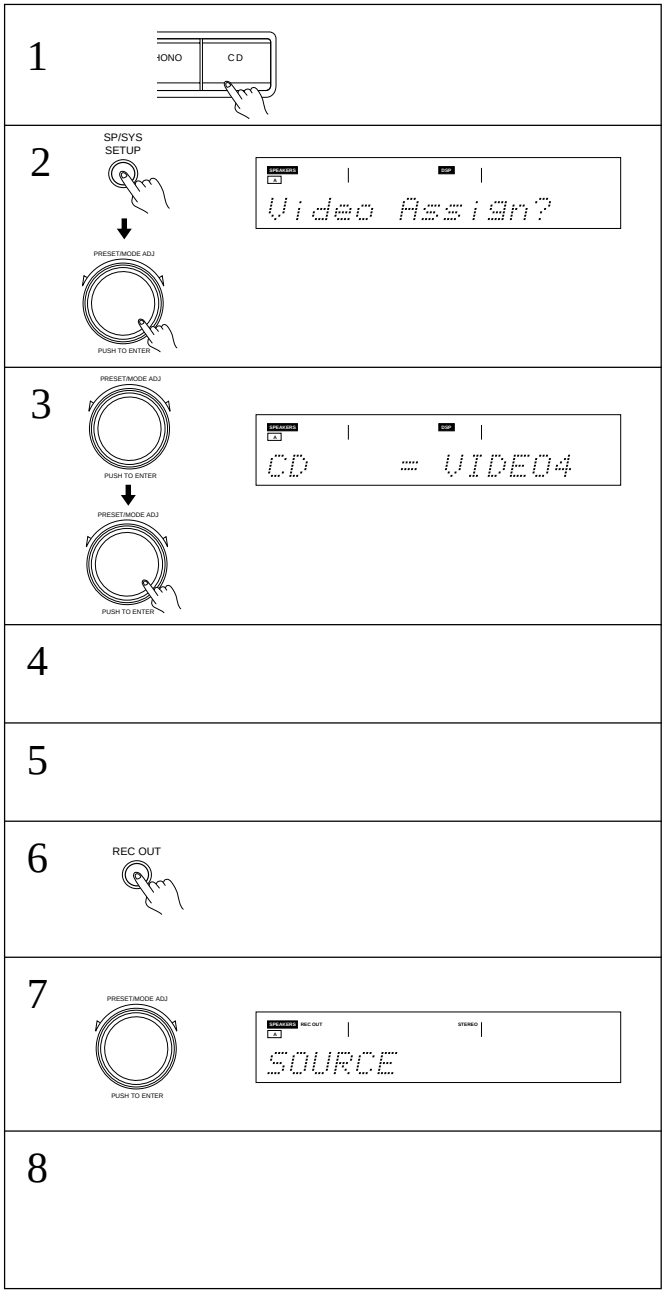
- Selecting "SOURCE" sets the currently selected input source as the recording source.
- The digital input signals assigned to the input source you selected using the input selector buttons will be output to the DIGITAL OUTPUT terminal. There are some restrictions on digital recording. When making digital recordings, consult the instruction manual that came with your digital recording equipment (such as MD recorder or DAT deck) to know what restrictions are imposed.
- You cannot select the source connected to the MULTI CHANNEL INPUT connectors. Even if you press the MULTI CH INPUT button in step 1 above, the signals will be output to the L and R output jacks of the input source you selected most recently.

3. **Start recording on the recorder connected to the TAPE, VIDEO-1, VIDEO-2 jacks. Then, start playing the source component you selected in step 1.**

Notes:

- If you change the input source during recording, you will record the signals from the newly selected input source.
- You cannot record the surround effects.

Recording a source



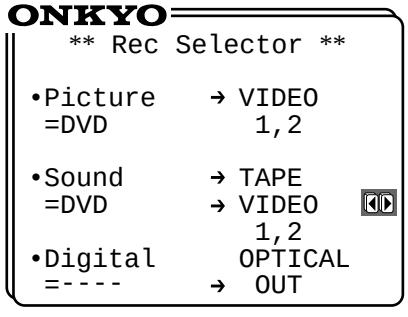
Adding sound to a video tape

You can add CD or MD sound to your video recordings.
The following is an example of adding sound to a video recording using the video cassette recorder connected to the VIDEO-1 jacks of the receiver. Let's assume that you will record the images from a video camera connected to the VIDEO-4 VIDEO jack and the sound from a CD player.

1. **Press the CD input selector button.**
2. **Press the SP/SYS SETUP button repeatedly until "Video Assign?" appears and then press the SMART SCAN CONTROLLER.**
3. **Rotate the SMART SCAN CONTROLLER until "VIDEO 4" appears. Press the SMART SCAN CONTROLLER .**
4. **Insert a CD in the CD player. Or, insert a tape in the video camera connected to the VIDEO-4 (VIDEO) jack.**
5. **Insert a tape to which recording is made in the video cassette recorder connected to the VIDEO-1 (R, L, V) jacks.**
6. **Press the REC OUT button.**
   The REC OUT indicator blinks for 8 seconds.
7. **Rotate the SMART SCAN CONTROLLER to select "SOURCE."**
   "CD" has been selected as the audio input source and "VIDEO 4," which you set in steps 1 to 3, as the video input source.
8. **Start recording on the video cassette recorder connected to the VIDEO-1 jacks. Then, start playing the CD player and the video camera connected to the VIDEO-4 jack.**

Notes:

- If you change the input source during recording, you will record the audio signals from the newly selected input source and the video signals assigned to that input source.
- You cannot record the surround effects.



• Using the on-screen display

You can use the on-screen display to set the recording equipment to which the signals are output. By doing so, you can record signals from the selected input source.

1. **Press the OSD MENU button.**
2. **Select "Rec Selector" and press the right edge of the ENTER/Cursor button.**
   The Rec Selector screen appears.
   The recording sources are shown on the left and the corresponding output jacks are shown on the right.
3. **Press the right or left edge of the ENTER/Cursor button to select the output jack.**
   When Sound is set to "TAPE," "TUNER," "PHONE," or "CD," Picture shows the video source you set in "Assigning a video source to each audio input source" (see page 40).
   To record the currently playing sound or video images, select "(SOURCE)" below the source name for Sound or Picture.
4. **Press the center of the ENTER/Cursor button, or press the EXIT button, to exit the setup mode.**

Receiving RDS broadcasts (European models only)

RDS reception is available only on the European model, and only in areas where RDS broadcasts are available.

What is RDS?

FM broadcasting stations now transmit RDS signals, which provide additional information. RDS provides you with various services so that, for example, you can choose a station broadcasting your favorite categories of music or other information. (Refer to the right column for details.)

PS: Program Service Name
When an RDS station broadcasting PS information is selected, the station's name is displayed instead of the frequency.

PTY: Program Type
When an RDS station broadcasting PTY information is selected, the station type (classification) is displayed.

TP: Traffic Program
When an RDS station broadcasting TP information is selected, the traffic information is displayed.

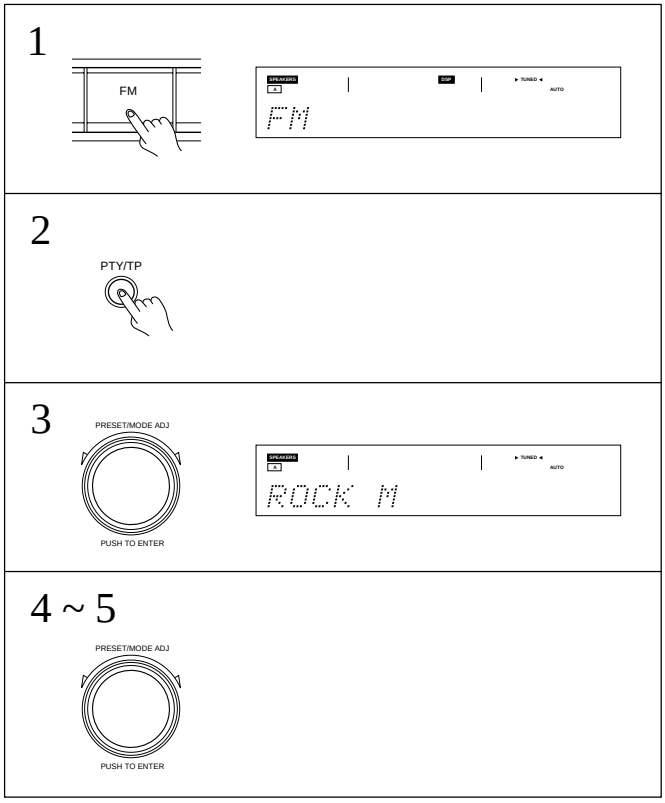
RT: Radio Text
When an RDS station broadcasting RT information is selected, the information received from the station is displayed.

Notes:
In some cases, the characters displayed on the TX-DS777/676's display may not be exactly the same as the ones broadcast by the radio station. Unusual characters may appear on the display if the TX-DS777/676 receives characters that cannot be displayed correctly. This is not a malfunction.

PTY Classifications in Europe

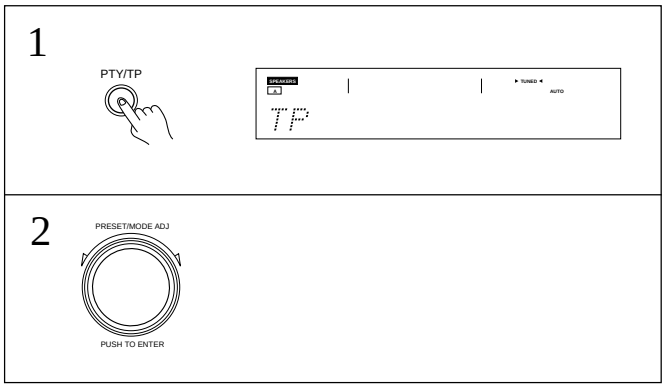
None	No program type.
News reports	Reports on current events and happenings.
Current affairs	Topical reporting of current affairs, often with a wider range of topics than news reports.
Information	General information such as whether forecasts, consumer affairs, medical help, etc.
Sport	Live sports action, sports news, and interviews.
Education	Formal educational programs.
Drama	Radio plays and serials.
Culture	Cultural programs (including religious affairs).
Science and technology	Programs about the natural sciences and technology.
Varied	Speech-based programs not covered by the above categories (e.g., quizzes, panel games, comedy, etc.).
Pop music	Popular commercial music, usually from past or present sales charts (e.g., Top 40).
Rock music	Popular music with an alternative appeal, often not appearing on sales charts.
Middle of the road music	Easy listening music (as opposed to Pop, Rock or Classical).
Light classics	Classical music for general rather than specialist appreciation.
Serious classics	Performances of major orchestral works, symphonies, chamber music etc., including Grand Opera.
Other music	Music styles not covered by the above categories, e.g. Jazz, Rhythm & Blues, Folk, Country, Reggae.
Alarm	When an RDS station is making an emergency broadcast, this ALARM will flash on the display.

Receiving RDS broadcasts (European models only)



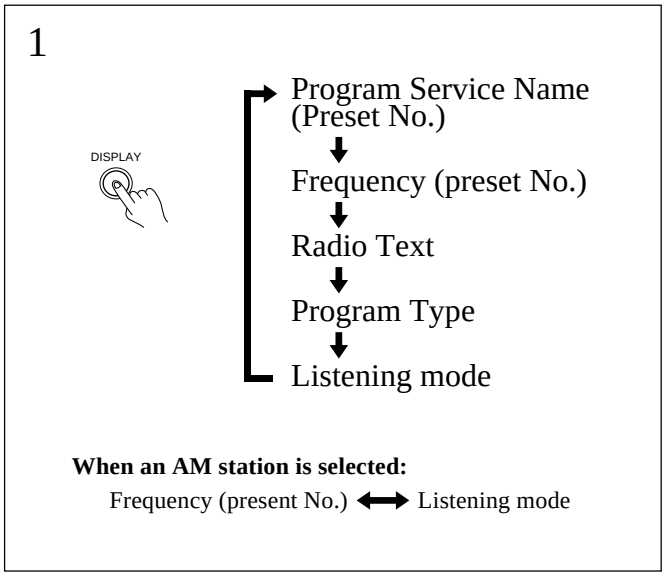
Recording a source while listening to music or a movie

1. **Select FM as the input.**
2. **Press the PTY/TP button. The current program type appears on the display. "No RDS Data" will appear when no RDS signal is being received from the station.**
3. **Rotate the SMART SCAN CONTROLLER to select the program type (PTY), for example "ROCK M".**
   Refer to the explanation of PTY on the previous page
4. **Press the SMART SCAN CONTROLLER to start searching for stations of the desired program type.**
   If you press the SMART SCAN CONTROLLER button while "No RDS Data" is displayed, "PTY?" will appear. In this case, return to Step 3.
   When a station of the desired program type is tuned in, scanning stops for approximately five seconds, then resumes.
5. **When the desired station is located, press the SMART SCAN CONTROLLER again to stop scanning.**



Searching for traffic information (TP scan)

1. **Press the PTY/TP button twice to select "TP."**
   "[TP]" appears when the current station is broadcasting TP signals.
2. **Press the SMART SCAN CONTROLLER to start searching for other TP stations.**
   When a station broadcasting traffic information is located, scanning stops. If "Not Found" appears on the display, a TP station cannot be located.



Displaying Radio Text (RT)

If the selected station is not broadcasting RT signals, this function cannot be used.

1. **Each time you press the DISPLAY button, the displayed RDS information changes as shown at left.**

- If the current station you are listening to is not an RDS station, only the frequency appear.
- When RT signals are received, it takes about 15 seconds for the Radio Text to appear on the display.
- If "Waiting" appears on the display, more time is required to receive the RT information. When the information is received, the characters will scroll across the display.
- If "No text data" appears on the display for 3 seconds, RT information is not available.
- The display shows frequency for 3 seconds and returns to program service name.

The initial settings

The following table shows the factory-set default parameter values. Use it as a reference when you change these parameter values as needed, although they are usable in many cases.

Initial settings

Config Setup

All Ch For THX	Yes	
	When set to “No”	
	Subwoofer	Yes
	Front	Small
	Center	Small
	Surround	Small

Distance Setup

Left	3.6m/12ft
Center	3.6m/12ft
Right	3.6m/12ft
R-Sur	2.1m/7ft
L-Sur	2.1m/7ft
Subwoofer	3.6m/12ft

Test Tone

Left	0dB
Center	0dB
Right	0dB
R-Sur	0dB
L-Sur	0dB
Subwoofer	0dB

Listning mode

Listning mode	stereo

Listning mode parameter

Re-EQ	ON when “THX” is selected
	OFF when THX is NOT selected
LATE NIGHT	OFF
LFE level	0dB
Front Effect	ON
Reflect level	0dB
Reverb level	0dB
Room size	Mid

Multi ch input

Left	0dB
Center	0dB
Right	0dB
R-Sur	0dB
L-Sur	0dB
Subwoofer	0dB

Digital input

DVD	OPT2
VIDEO1	COAX1
VIDEO2	—(None)
VIDEO3	COAX2
VIDEO4	—(None)
TAPE	—(None)
CD	OPT1

Intellivolume

CD	0dB
PHONO	0dB
FM	0dB
AM	0dB
TAPE	0dB
DVD	0dB
VIDEO1	0dB
VIDEO2	0dB
VIDEO3	0dB
VIDEO4	0dB

Video assign Setup

CD	—(None)
PHONO	—(None)
FM	—(None)
AM	—(None)
TAPE	—(None)
DVD	DVD
VIDEO1	VIDEO1
VIDEO2	VIDEO2
VIDEO3	VIDEO3
VIDEO4	VIDEO4

Tone Control

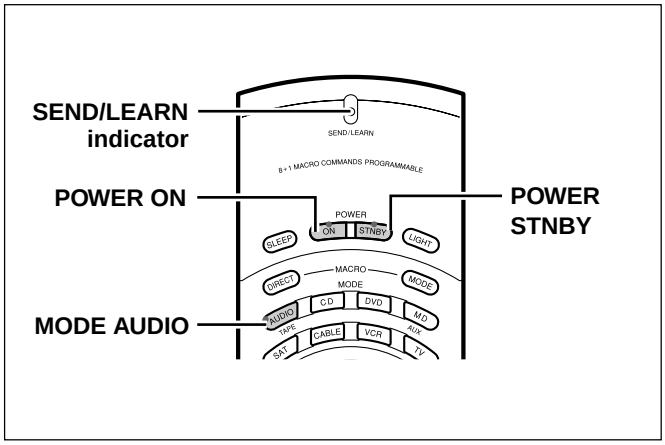
bass	0
treble	0

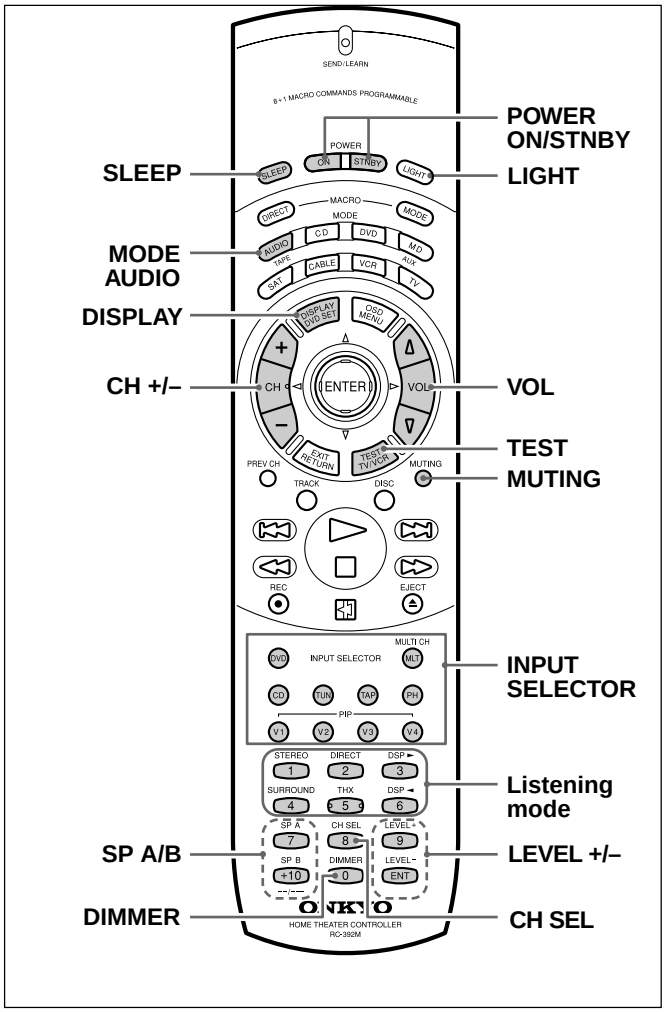
Screen Setup

Background color	Blue1
Superinpose	Normal
Immediatedisplay	ON

Using the remote controller

Overview
When you use a remote controller, typically you press one of the MODE buttons that corresponds to the device you wish to control, then press the operation buttons. For example, if you wish to control the TX-DS777/TX-DS676 from a remote controller, first press the MODE AUDIO button, then press an appropriate operation button. To control a CD player, press the MODE CD button, then press an appropriate operation button.
First, press the desired MODE button to make sure that the TX-DS777/TX-DS676 is set to a correct mode.





Using the RC-392M to control each device

Turning the power on and off to the TX-DS777/ TX-DS676

Note:
Before operating the RC-392M, turn on the POWER switch on the TX-DS777/TX-DS676 so that the unit enters standby mode.

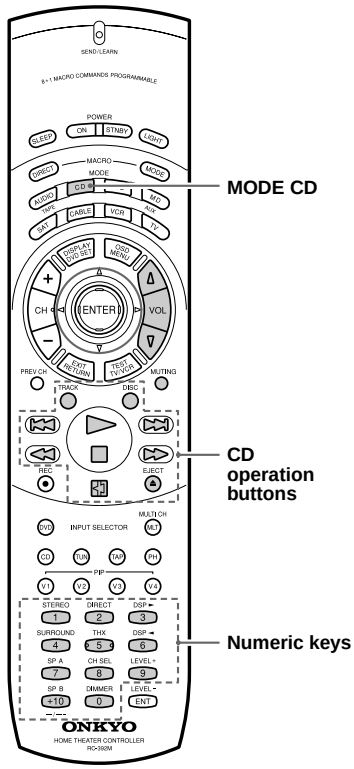
1. **Press the MODE AUDIO button.**
2. **Press the POWER ON button.**
   Pressing the POWER STNBY button will activate the power standby mode.

   SEND/LEARN indicator
   This indicator acts as a guide when commands are programmed into or sent by the remote controller. It also warns the user when an error is made or battery power is low.

Controlling the TX-DS777/TX-DS676

1. **Press the MODE AUDIO button.**
2. **Press the desired operation button.**
   Shaded buttons in the figure are the operation buttons used to control the TX-DS777/TX-DS676.

   SLEEP : Sleep function
   POWER ON/STNBY
   : Power on/standby
   DISPLAY : Changing the display
   VOL Δ/∇ : Adjusting the volume
   CH +/- : Tuner preset number increment/decrement
   INPUT SELECTOR
   Listening mode
   : Changing Listening mode
   SP A/SP B : Switching between Speakers A and B
   CH SEL : Selecting a speaker
   DIMMER : Adjusting the brightness of the display
   LEVEL +/- : Adjusting the speaker levels
   TEST : Test tone
   MUTING : Muting
   LIGHT : Illuminating the buttons.



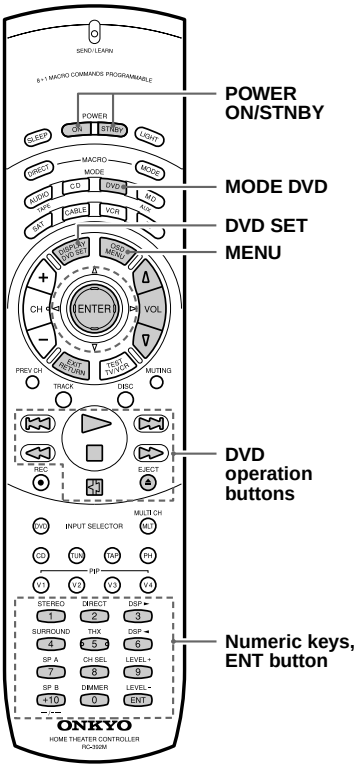
Controlling an Onkyo CD player

Note:
First connect an Onkyo CD player using the RI connection. (See page 7.)

1. **Press the MODE CD button.**
2. **Press the desired CD operation button.**

TRACK : Selecting a track
DISC : Selecting a disk in the CD changer
⏮ : Down
⏭ : Up
▷ : Playback
□ : Stop
◁◁ : Rewind
▷▷ : Fast forward
⏸ : Pause
EJECT ⏏ : Eject
0, 1~9, +10 : Numeric keys

You may also use the following buttons:
VOL Δ/∇ : Adjusting the volume level of the TX-DS777/TX-DS676
MUTING : Muting the sound from the TX-DS777/ TX-DS676



Controlling an Onkyo DVD player

Note:
Make sure that you point the transmission part on the remote controller toward the sensor area on the DVD player.

1. **Press the MODE DVD button.**
2. **Press the desired DVD operation button.**

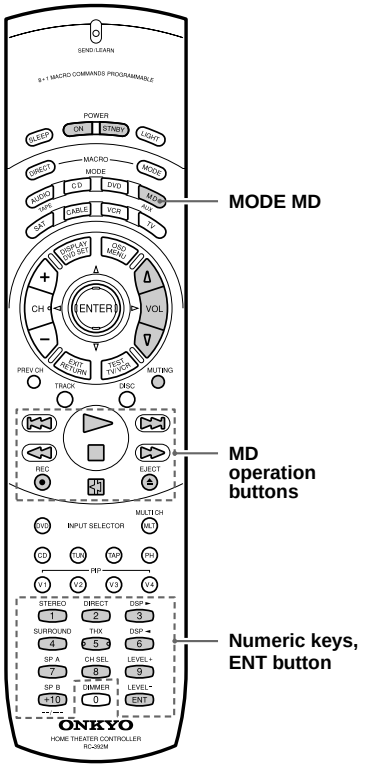
POWER ON/STNBY
: Turning the power on and off to the DVD player
DVD SET : DVD setup

DVD player on-screen button
MENU : Displaying the menu
△▽△▽ : Moving the cursor
ENTER : Confirming the selection
RETURN : Return

DVD player buttons
⏮ : Down
⏭ : Up
▷ : Playback
□ : Stop
◁◁ : Rewind
▷▷ : Fast forward
⏸ : Pause
EJECT ⏏ : Eject
0, 1~9, +10 : Numeric keys
ENT : Confirm

You may also use the following buttons:
VOL Δ/∇ : Adjusting the volume level of the TX-DS777/TX-DS676
MUTING : Muting the sound from the TX-DS777/ TX-DS676

Note:
The ENT button on the right below the numeric keys has the same function as “ENTER” of the ENTER/cursor button.

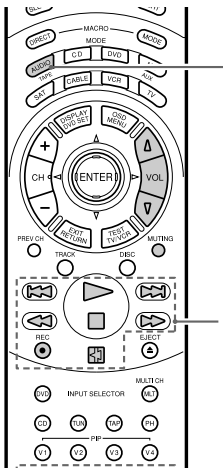


Controlling an Onkyo MD recorder

Note:
Make sure that you point the transmission part on the remote controller toward the sensor area on the MD recorder.

1. **Press the MODE MD/AUX button.**
2. **Press the desired MD operation button.**
   Turning the power on and off to the MD recorder
   POWER ON/STNBY
   : Turning on or standby the power to the MD recorder
   : Down
   : Up
   : Playback
   : Stop
   : Rewind
   : Fast forward
   REC ● : Record
   : Pause
   EJECT ⏏ : Eject
   1~9, +10 : Numeric keys
   ENT : Confirm

   You may also use the following buttons:
   VOL Δ/∇ : Adjusting the volume level of the TX-DS777/TX-DS676
   MUTING : Muting the sound from the TX-DS777/ TX-DS676

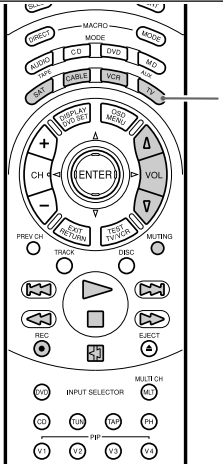


Controlling an Onkyo tape deck

Note:
First connect an Onkyo tape deck using the connection. (See page 7.)

1. **Press the MODE AUDIO/TAPE button.**
2. **Press the desired tape deck operation button.**
   : Playback
   : Stop
   : Rewind
   : Fast forward
   REC ● : Recording/pause
   : Reverse playback

   You may also use the following buttons:
   VOL Δ/∇ : Adjusting the volume level of the TX-DS777/TX-DS676
   MUTING : Muting the sound from the TX-DS777/ TX-DS676



MODE SAT, CABLE, VCR, and TV buttons

No preset codes are programmed into the MODE SAT, CABLE, VCR, and TV buttons. You can use these buttons to program remote controller signals of other devices. (See page 52.)
You may use the following buttons:

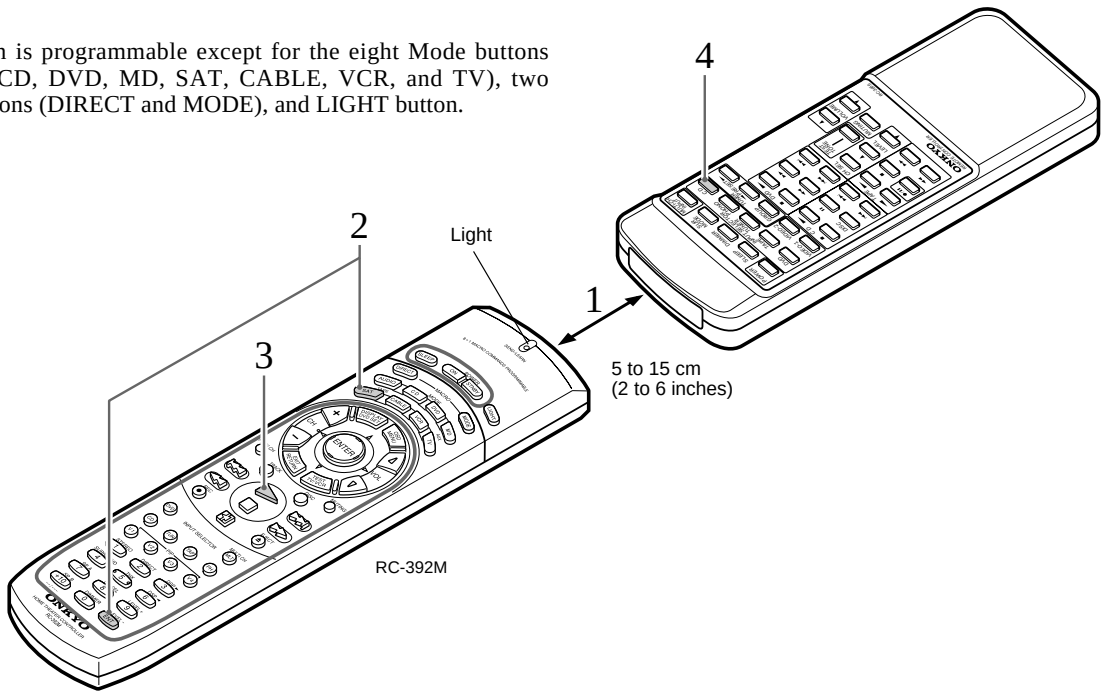
VOL Δ/∇ : Adjusting the volume level of the TX-DS777/TX-DS676
MUTING : Muting the sound from the TX-DS777/ TX-DS676

Programming the remote controller codes of other devices into the RC-392M

The RC-392M has two learning functions. One is a normal learning function that enables the RC-392M to learn other remote controllers' codes. The other is a macro learning function, which enables the RC-392M to learn a series of codes already memorized in the remote controller into one MACRO button.

Programming procedure

Any button is programmable except for the eight Mode buttons (AUDIO, CD, DVD, MD, SAT, CABLE, VCR, and TV), two Macro buttons (DIRECT and MODE), and LIGHT button.



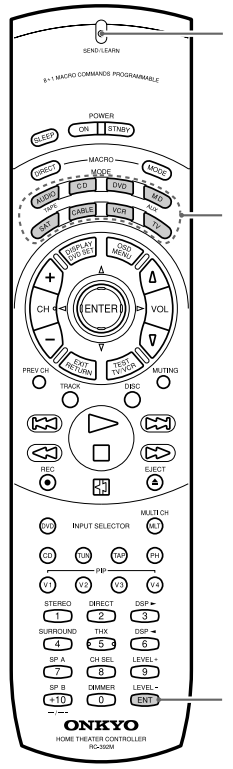
1. **Place the RC-392M and the remote controller for another device, with 5–15cm (2–6 inches) apart and the light-emitting parts facing each other.**
2. **While pressing and holding down the desired MODE button on the RC-392M (AUDIO, CD, DVD, MD, SAT, CABLE, VCR, or TV), press the ENT button, then release the buttons.**
   When you press and hold down one of the MODE button, the SEND/LEARN indicator lights up. When you press the ENT button, the indicator turns off. When you release the buttons, the SEND/LEARN indicator lights up again.
3. **Press and release the desired operation button on the RC-392M.**
   You may select any button within the rectangle shown in the figure. When you press the button, the SEND/LEARN indicator turns off. When you release the button, the indicator lights up again.
4. **Press and hold down the desired button on the remote controller of the other device until the SEND/LEARN indicator on the RC-392M flashes twice.**
   The SEND/LEARN indicator flashes twice slowly, then lights up.
5. **Repeat Steps 3–4 to program other buttons in the same MODE.**
   Repeat Steps 2-4 to program other buttons in a different MODE.
6. **Press the MODE button to complete programming.**
7. **Operate the programmed button to make sure the learning function works.**
   Note:
   The remote controller codes for the Onkyo CD player, tape deck, DVD player, and MD recorder have already been programmed into the buttons on the RC-392M. You may program other remote controller codes into these buttons. If you wish to restore the Onkyo preset codes after you program new codes, erase the new codes. (See page 53.)

Note:

- The remote controller has 408 memory slots (51 buttons 8 modes), although this number varies significantly depending on the manufacturers and types of the remote controller you wish to program into the RC-392M. It is recommended that you determine which button functions have priority for programming.
- If you do not press any button for more than 30 seconds during the procedure, the SEND/LEARN indicator flashes three times quickly, then the RC-392M exits Learning mode. Resume Step 2.
- If you make a mistake during programming, the SEND/LEARN indicator flashes three times quickly, then the RC-392M exits Learning mode.
- If you try to program beyond the learning capacity of the RC-392M, the SEND/LEARN indicator flashes six times quickly, then the RC-392M exits Learning function. Try programming in a button of other MODE.
- Follow the same procedure when you wish to program new codes into the already-programmed buttons.
- This remote controller uses infrared rays. Most remote controller codes can be memorized using the infrared system; however, depending on the degree to which the system differs, there may be some rare occasions when memorization is not possible.
- Some remote controllers use a single button to perform different functions, with the function code changing each time the button is pressed. If you are using this kind of controller, please perform the "learn" operations for each function individually to store each function to a button on the RC-392M.
- For instructions regarding the operation of "learned" units, please refer to the instruction manual for each product.
- Even after codes have been memorized, please keep your old remote controller in a safe place. If the memorized codes are lost when the batteries run down, it will be necessary to memorize them once again using the old remote controller.
- Make sure both the RC-392M and the product's own remote controller have fresh batteries. If either of them has batteries that are wearing down, it may be impossible to store the remote controller codes into the RC-392M or the product may not respond properly to the buttons on the RC-392M for which the remote controller codes were stored into memory.

Programming the remote controller codes of other devices into the RC-392M

See page 57 for information on how to erase the learned codes from all buttons.



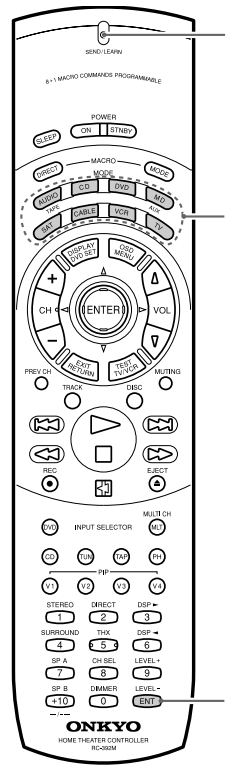
Erasing a learned code

You can erase a learned code. You cannot erase preset codes.

• Erasing a code programmed in a button

1. **Press and hold down the corresponding MODE button and press the ENT button, then release the buttons.**
   When you press the MODE button, the SEND/LEARN indicator lights up. When you press the ENT button, the indicator turns off. When you release the buttons, the indicator lights up again.
2. **Press and release the button from which you wish to erase the learned code.**
   When you press the button, the SEND/LEARN indicator turns off. When you release the button, the indicator lights up again.
3. **Press and release the same button again.**
   The SEND/LEARN indicator flashes twice slowly. The learned code is erased.

Note:
If you do not press the button in step 2 or 3 for more than 30 seconds, the SEND/LEARN indicator flashes three times quickly, then the RC-392M exits Learning mode. Resume Step 1.



Erasing a learned code from a MODE button

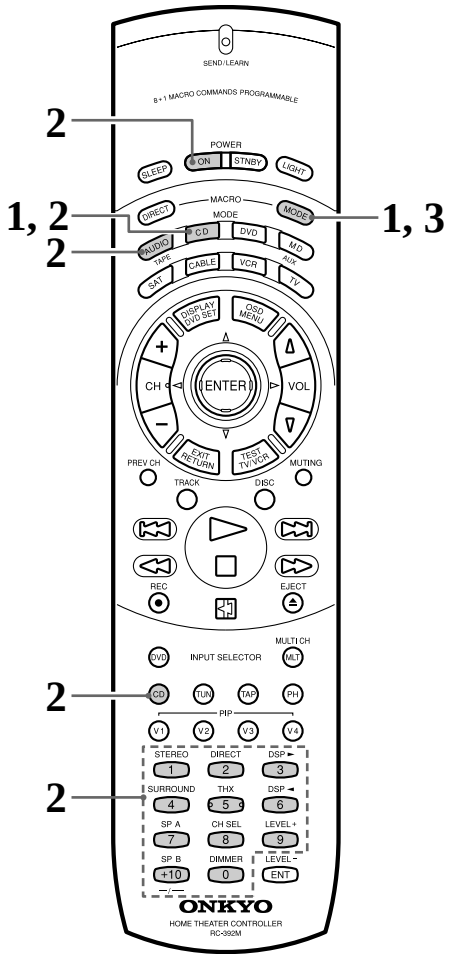
1. **Press and hold down the MODE button from which you wish to erase the learned code, and press the ENT button twice. Then release the buttons.**
   When you press the MODE button, the SEND/LEARN indicator lights up. When you press the ENT button, the indicator turns off. When you release the buttons, the indicator flashes twice slowly, then lights up again.
2. **Press and release the same MODE button again.**
   When you release the button, the SEND/LEARN indicator flashes twice slowly. The learned code is erased.

Note:
- If you do not press any button for more than 30 seconds, the SEND/LEARN indicator flashes three times quickly, then the RC-392M exits Learning mode. Resume Step 1.
- If you make a mistake during programming, the SEND/LEARN indicator flashes three times quickly, the RC-392M exits Learning mode. Resume Step 1.
- If have programmed many button operations to a single MODE button, the SEND/LEARN indicator may remain illuminated continuously in Step 2. This is not malfunction.

Using a Macro function

What is a Macro function?

A Macro function enables you to program a series of button operations on the remote controller into a single button. For example, you need to follow the steps below to play a CD player connected to the TX-DS777/TX-DS676 without using the Macro function:
1: Press the MODE AUDIO button. → 2: Press the POWER ON button. → 3: Press the CD (INPUT SELECTOR) button. → 4: Press the MODE CD button. → 5: Use the numeric keys to select the desired song.
This operation will be two button presses away if you program these steps into a macro button.



Tip:
The codes programmed into a MACRO button will be transmitted with an interval of 0.5 seconds. However, some devices may not be able to complete one operation in 0.5 seconds and may miss the next code. In this case, press one operation button, press the corresponding MODE button, then press another operation button to extend the interval between the two operations up to one second.

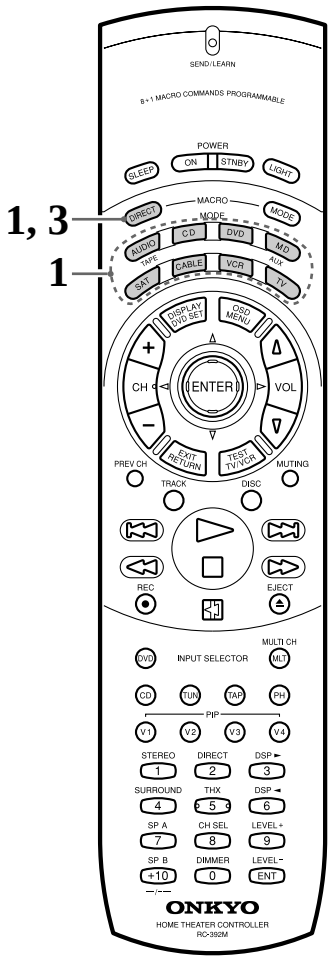
Programming Macro mode

You may program the desired steps into each of eight MODE buttons. The following example explains how to program Steps 1–5 (described above) into the MACRO MODE button under the MODE CD button (CD mode).

1. **Press and hold down the desired MODE button you wish to program (in this case, MODE CD button), and press the MACRO MODE button. Then release the buttons.**
   When you press the MODE CD button, the SEND/LEARN indicator lights up. When you press the MACRO MODE button, the indicator turns off.
   When you release the buttons, the indicator flashes briefly, then lights up again.
2. **Press the operation buttons in series you wish to program into the MACRO MODE button.**
   Press the MODE AUDIO, POWER ON, CD (INPUT SELECTOR), MODE CD buttons, and a numeric key. When you press the button, the SEND/LEARN indicator turns off. When you release the button, the indicator lights up.
3. **Press the MACRO MODE button to complete programming.**
   The SEND/LEARN indicator flashes twice slowly.
   Repeat Steps 1–3 to program other series of button operations into another MODE button.
4. **Check to see if the series of button operation has been correctly learned.**
   Point the remote controller toward the TX-DS777/676, press the MODE CD button, and press the MACRO MODE button to see if the unit responds as programmed.
   Transmitting the codes in Macro mode takes a while. During transmission, point the remote controller toward the device to be controlled.

Note:

- You may program up to 16 button operations into each MACRO button. If you try to program the 17th step, it will be ignored.
- If you do not press any button for more than 30 seconds during the procedure, the SEND/LEARN indicator flashes three times quickly, then the RC-392M exits Learning mode. Resume Step 1.
- If you make a mistake during programming, the SEND/LEARN indicator flashes three times quickly, then the RC-392M exits Learning mode. Resume Step 1.
- If you erase one of the operation buttons already programmed in the MACRO MODE button, or if you program a different code into such a button, the operation button will no longer work. In this case, program the buttons again to avoid malfunction.



Tip:
The codes programmed into a MACRO button will be transmitted with an interval of 0.5 seconds. However, some devices may not be able to complete one operation in 0.5 seconds and may miss the next code. In this case, press one operation button, press the corresponding MODE button, then press another operation button to extend the interval between the two operations up to one second.

Macro Direct Learning function

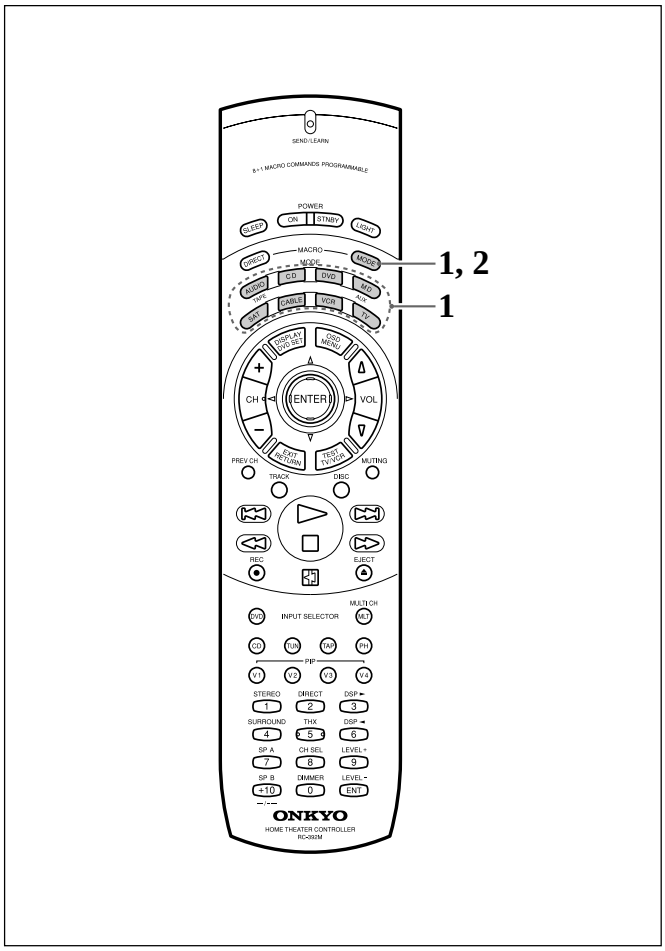
A series of remote controller button operations can be memorized into the MACRO DIRECT button for one-touch control.

Note:
You can program only one series of button operations into the MACRO DIRECT button.

1. **Press and hold down any one of the eight MODE buttons and press the MACRO DIRECT button. Then, release the buttons.**
   When you press the MODE button, the SEND/LEARN indicator lights up. When you press the MACRO DIRECT button, the indicator turns off. When you release the buttons, the indicator flashes briefly, then lights up again.
2. **Follow Steps 2 in the "Programming Macro Mode" on page 54.**
3. **Press the MACRO DIRECT button to complete the procedure.**
   The SEND/LEARN indicator flashes twice slowly.
4. **Check to see if the button has been programmed correctly.**
   Point the RC-392M toward the TX-DS777/TX-DS676 and press the MACRO DIRECT button, and make sure that the device responds as programmed.
   Transmitting the codes in Macro mode takes a while. During transmission, point the remote controller toward the device to be controlled.

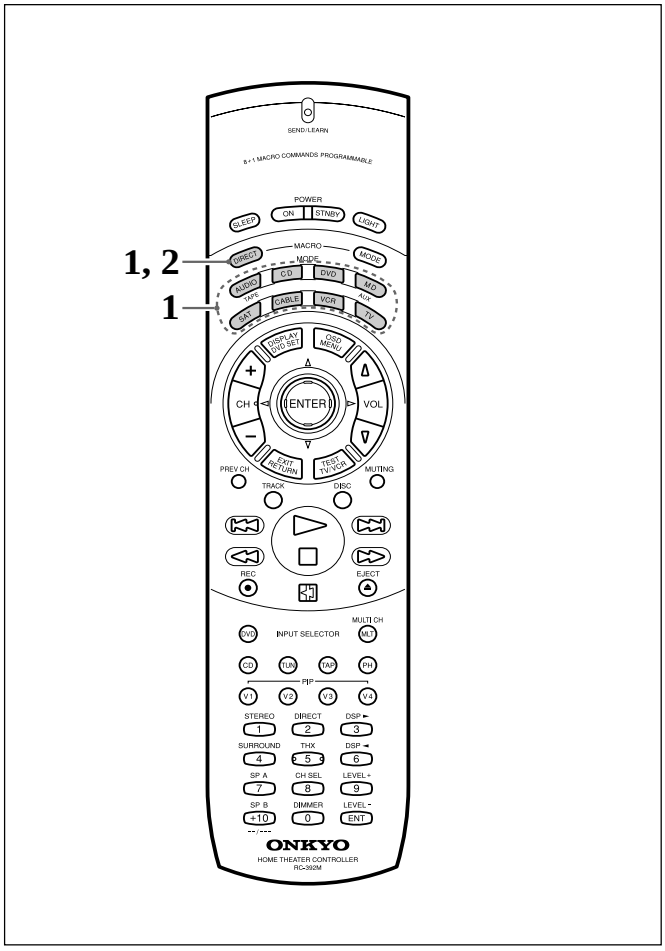
Note:

- You may program up to 16 button operations into the MACRO DIRECT button. If you try to program the 17th step, it will be ignored.
- If you do not press any button for more than 30 seconds during the procedure, the SEND/LEARN indicator flashes three times quickly, then the RC-392M exits Learning mode. Resume Step 1.
- If you make a mistake during programming, the SEND/LEARN indicator flashes three times quickly, then the RC-392M exits Learning mode. Resume Step 1.
- If you erase one of the operation buttons already programmed in the MACRO DIRECT button, or if you program a different code into such a button, the operation button will no longer work. In this case, program the buttons again to avoid malfunction.



Erasing a learned remote controller button operation from the MACRO MODE buttons

1. **Press and hold down the corresponding MODE button and press the MACRO MODE button, then release the buttons.**
   When you press the MODE button, the SEND/LEARN indicator lights up. When you press the MACRO MODE button, the indicator turns off. When you release the buttons, the indicator flashes once.
2. **Press the MACRO MODE button again.**
   The SEND/LEARN indicator flashes twice slowly. The learned operation is erased.

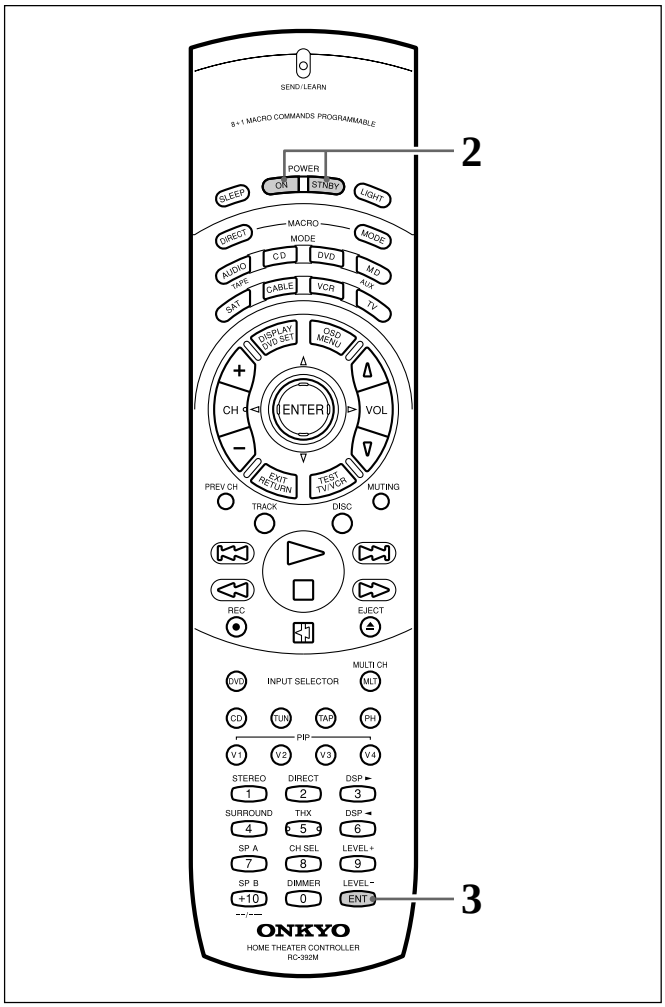


Erasing a learned remote controller button operation from the MACRO DIRECT button

1. **Press and hold down any one of the MODE buttons and press the MACRO DIRECT button. Then release the buttons.**
   When you press the MODE button, the SEND/LEARN indicator lights up. When you press the MACRO DIRECT button, the indicator turns off. When you release the buttons, the indicator flashes once.
2. **Press the MACRO DIRECT button again.**
   The SEND/LEARN indicator flashes twice slowly. The learned operation is erased.

Note:

- If you do not press any button for more than 30 seconds, the SEND/LEARN indicator flashes three times quickly, then the RC-392M exits Learning mode. Resume Step 1.
- If you press a wrong button in Step 2, you may have overwritten the memory of the button you pressed.



Erasing all codes and operations programmed in the buttons

This procedure will erase all remote controller codes for the other devices and all macro operations that have been programmed in the RC-392M (see pages 52, 54 and 55).

1. **Open the battery cover and remove the batteries.**
2. **While pressing and holding down the POWER ON button and the POWER STNBY button, insert the batteries in the correct direction.**
   After inserting the batteries, release the buttons. The SEND/LEARN indicator flashes slowly.
3. **Press the ENT button.**
   The SEND/LEARN indicator lights up for about ten seconds, then turns off.
   All programmed codes are erased and the button memories return to the factory presets.

Note:

- Proceed to Step 3 immediately after Step 2. Otherwise, the batteries will be consumed quickly.
- If you press any button other than the ENT button in Step 3, no codes will be erased. In this case, repeat the steps from the beginning.

Troubleshooting guide

If a problem occurs while you are using the remote controller, first try to operate the front panel controls on the main unit to make sure that it is not due to a malfunction (or worn out batteries) in the remote controller.

Trouble	Cause	Remedy	See page
POWER			
Power shut off immediately after power on.	• Amplifier protection circuitry has been activated.	• Remove the AC plug from the outlet immediately. Then contact your Onkyo service center.	-
No power.	• Power cord is disconnected.	• Connect power cord.	13
	• There is external noise in the computer circuits of this unit.	• Turn the power button off and then on again or remove the AC plug from the outlet and then plug it again.	13
	• AC fuse blown.	• Contact your Onkyo Service Center.	-
Power on but no sound.	• "Muting" is displayed.	• Press the MUTING button on the remote controller to turn it off.	31
	• The digital/analog input setting is incorrect.	• Select the correct input.	23, 29
	• Bad connections.	• Check connections, speaker leads, etc.	6~15
	• Amplifier protection circuitry has been activated.	• Contact your Onkyo Service Center.	-
The sound of the playback source is not heard.	• The input selector is not set properly.	• Set it to the playback source.	26, 27
No picture appears on the TV screen (or monitor)	• The TV (or monitor) is not set to receive the output signals from the reciver.	• Set the TV (or monitor) to the receiver input.	8
	• The video cable is not connected securely.	• Check the connections.	8
	• Only S video connection is made.	• Make also video connection.	8
SPEAKERS			
No sound from the center speaker, or very minimal sound.	• Speaker cable is not corrected.	• Check the connection between the amplifier and the speaker.	11
	• Listening mode is set to Stereo or Direct.	• Set the Listening mode to any mode other than Stereo or Direct.	34~38
	• CENTER level is set to minimum.	• Set the CENTER level to the appropriate volume.	21
	• CENTER SPEAKER is set to None.	• Set CENTER SPEAKER to Large or Small.	18, 19
No sound or quiet sound from subwoofer	• Subwoofer is set to No.	• Check the speaker setting.	12
	• Subwoofer speakers output level setting is improper.	• Check the output level of the Subwoofer using the test tone.	22
PHONO			
Hum, low-frequency noise.	• Poor or no input ground.	• Check outer conductor of input plugs.	6
	• Poor or no phono motor ground.	• Check for proper ground connection.	6
	• The placement of the audio connection cables on the rear panel is incorrect.	• Adjust the placement of the cable to reduce hum.	-
Howling when the volume is turned up.	• Turntable and speakers are too close together.	• Move them farther apart.	-
Rough or scratchy sound. High range is not clear.	• Stylus of turntable pick-up is worn.	• Replace.	-
	• Turntable stylus tip is dirty.	• Clean.	-
	• Treble control too high.	• Turn treble control down.	31
FM/AM			
AM stations cannot be received.	• AM loop antenna is not attached.	• Connect the included AM loop antenna to the AM antenna terminals.	14
Buzzing noise on AM (particularly conspicuous at night or with weak stations).	• Noise from electrical apparatus such as fluorescent lamp.	• Move the AM loop antenna to different position.	15
		• Set up an outdoor AM antenna.	15
High-pitched noise or buzzing noise on AM.	• Noise from TV set.	• Place the AM loop antenna as far as possible from the TV.	15
		• Move unit away from TV set.	-
Crackling noise on AM, FM.	• Noise caused by turning fluorescent lamp on and off.	• Move antenna as far as possible from the fluorescent lamp.	15
	• Noise from automobile ignition.	• Install an FM outdoor antenna as far as possible from the road.	15
		• Change the position or direction of the outdoor antenna.	15

Troubleshooting guide

Trouble	Cause	Remedy	See page
FM/AM			
TUNED and STEREO indicators light but sound is distorted and stereo separation is bad.	• Station is too strong. • Multiple reflection of the radio waves because of tall buildings or mountains.	• Change to FM indoor antenna. • Use antenna which has better directivity and select a point where the distortion is least.	15 15
TUNED and STEREO indicators flicker and hiss is heard on FM.	• Station is too weak. • Stereo FM broadcasts cover only about half the distance of an ordinary broadcast.	• Install an outdoor FM antenna. • Change the position or direction of the outdoor antenna.	15 15
No station is recalled.	• The power cord has been unplugged or the POWER switch has been turned off for a long time.	• The memory contents are lost. Store all stations again.	25
Video & audio			
Desired picture does not appear when MULTI CH INPUT button is pressed.	• Wrong connection. • No video input is assigned.	• Check the connection again. Insert the plugs and connectors completely. • Assign a proper video input.	9 33
No on-screen display.	• Improper connection. • Improper OSD selector setting.	• Check connections. • Set the OSD selector properly.	8 8, 9
Picture and sound do not match.	• Improper connection. • Improper video is assigned.	• Check connections. • Check Video Assign setting.	8 40
No sound, or sound of the selected source is not heard.	• The digital input selector is not set properly.	• Check Digital Input setting.	23, 29
No picture appears on the TV screen (or monitor).	• The TV (or monitor) is not set to receive the output signals from the receiver. • The video cable is not connected securely. • Only S-Video connection is made.	• Set the TV (or monitor) to the receiver input. • Check connections. • Make also video connection.	- 8 8
Others			
LATE NIGHT function cannot be used.	• Playback source is not Dolby Digital encoded.	• Check that the DOLBY DIGITAL indicator lights up on the display.	38
LFE LEVEL function cannot be used.	• Playback source is not Dolby Digital , DTS, MPEG encoded.	• Check that the DOLBY DIGITAL , DTS, MPEG indicator lights up on the display.	38
Cinema Re-EQ function cannot be used.	• The listening mode is set to “Stereo,” “5ch stereo” or “Direct.”	• See the table on page 38.	38
Parameter cannot be set for Front Effect, Reflect Level, Reverb Level, Room Size, etc.	• Parameter may not be set depending on the listening mode.	• See the table on page 38.	38
Front panel controls function but remote controller does not.	• No batteries in remote controller. • Batteries have worn out. • The remote controller is not pointed at the remote sensor of the receiver. • The remote controller is too far from the reciever.	• Insert batteries. • Replace batteries. • Point the remote controller at the remote sensor of the reciever. • Operate the remote controller within 16 feet (5m).	5 5 5 5

Also refer to the respective instruction manuals of the video disc player, video cassette recorder, TV monitor, etc., that compose your entertainment system.

Because the unit contains a microcomputer to provide advanced functions, it may malfunction due to external noise or static electricity. If this happens, press the POWER switch on the unit and then press it in again after about five seconds.

Specifications

TX-DS777

AMPLIFIER SECTION

Continuous Average Power output (FTC)

All channels:	**105 watts per channel min. RMS at 8 ohms, 2 channels driven from 20 Hz to 20 kHz with no more than 0.08% total harmonic distortion.** **135 watts min. RMS at 6 ohms, 2 channels driven from 1 kHz with no more than 0.1% total harmonic distortion.**
Continuous Power output (DIN)	140 watts at 6 ohms
Maximum Power output (EIAJ)	170 watts at 6 ohms
Total Harmonic Distortion:	0.08% at rated power (Front)
IM Distortion:	0.08% at rated power (Front)
Damping Factor:	60 at 8 ohms (Front)
Input Sensitivity and Impedance	
PHONO:	2.5 mV, 50 kohms
LINE (CD, TAPE, DVD, VIDEO 1, 2, 3,4):	200 mV, 50 kohms
MULTICHANNEL INPUT (FRONT L/R, SURROUND L/R, CENTER):	200 mV, 50 kohms
(SUBWOOFER):	36 mV, 50 kohms
COAXIAL 1, 2 (DIGITAL):	0.5 Vp-p, 75 ohms
Output Level and Impedance	
Rec out (TAPE, VIDEO 1):	200 mV, 2.2 kohms
Pre out:	1 V, 470 ohms
Phono Overload:	110 mV RMS at 1 kHz, 0.5% T.H.D.
Frequency Response:	20 Hz to 100 kHz, +1/-3 dB(LINE INPUT)
RIAA Deviation:	20 Hz to 20 kHz, ±0.8 dB
Tone Control	
Bass:	±10 dB at 100 Hz
Treble:	±10 dB at 10 kHz
Signal-to-Noise Ratio	
Phono:	80 dB (IHF A, 5 mV input)
CD/Tape:	100 dB (IHF A)

VIDEO SECTION

Input sensitivity/Impedance	
(DVD, VIDEO 1, 2, 3,4)	
VIDEO (Composite):	1 Vp-p, 75 ohms
Output Level/Impedance	
(VIDEO 1, 2, MONITOR)	
VIDEO (Composite):	1 Vp-p, 75 ohms

TX-DS676

AMPLIFIER SECTION

Continuous Average Power output (FTC)

All channels:	**85 watts per channel min. RMS at 8 ohms, 2 channels driven from 20 Hz to 20 kHz with no more than 0.08% total harmonic distortion.** **110 watts min. RMS at 6 ohms, 2 channels driven from 1 kHz with no more than 0.1% total harmonic distortion.**
Continuous Power output (DIN)	115 watts at 6 ohms
Maximum Power output (EIAJ)	145 watts at 6 ohms
Total Harmonic Distortion:	0.08% at rated power (Front)
IM Distortion:	0.08% at rated power (Front)
Damping Factor:	60 at 8 ohms (Front)
Input Sensitivity and Impedance	
PHONO:	2.5 mV, 50 kohms
LINE (CD, TAPE, DVD, VIDEO 1, 2, 3,4):	200 mV, 50 kohms
MULTICHANNEL INPUT (FRONT L/R, SURROUND L/R, CENTER):	200 mV, 50 kohms
(SUBWOOFER):	36 mV, 50 kohms
COAXIAL 1, 2 (DIGITAL):	0.5 Vp-p, 75 ohms
Output Level and Impedance	
Rec out (TAPE, VIDEO 1):	200 mV, 2.2 kohms
Pre out:	1 V, 470 ohms
Phono Overload:	110 mV RMS at 1 kHz, 0.5% T.H.D.
Frequency Response:	20 Hz to 100 kHz, +1/-3 dB(LINE INPUT)
RIAA Deviation:	20 Hz to 20 kHz, ±0.8 dB
Tone Control	
Bass:	±10 dB at 100 Hz
Treble:	±10 dB at 10 kHz
Signal-to-Noise Ratio	
Phono:	80 dB (IHF A, 5 mV input)
CD/Tape:	100 dB (IHF A)

VIDEO SECTION

Input sensitivity/Impedance	
(DVD, VIDEO 1, 2, 3,4)	
VIDEO (Composite):	1 Vp-p, 75 ohms
Output Level/Impedance	
(VIDEO 1, 2, MONITOR)	
VIDEO (Composite):	1 Vp-p, 75 ohms

Specifications

TX-DS777

TUNER SECTION

FM

Tuning Range:	87.5 — 108.0 MHz (50 kHz steps)
Usable Sensitivity	
Mono:	11.2 dBf, 1.0 µV (75 ohms IHF) 0.9 µV (75 ohms DIN)
Stereo:	17.2 dBf, 2.0 µV (75 ohms IHF) 23 µV (75 ohms DIN)
50 dB Quieting Sensitivity	
Mono:	17.2 dBf, 2.0 µV (75 ohms)
Stereo:	37.2 dBf, 20 µV (75 ohms)
Capture Ratio:	2.0 dB
Image Rejection Ratio	
U.S.A. & Canadian models:	40 dB
Other area models:	85 dB
IF Rejection Ratio:	90 dB
Signal-to-Noise Ratio	
Mono:	76 dB
Stereo:	70 dB
Alternate Channel Attenuation:	55 dB
Selectivity:	50 dB (DIN)
AM Suppression Ratio:	50 dB
Total Harmonic Distortion	
Mono:	0.2%
Stereo:	0.3%
Frequency Response:	30 Hz — 15 kHz, ±1.0 dB
Stereo Separation:	45 dB at 1 kHz 30 dB at 100 Hz — 10 kHz

AM

Tuning Range	
U.S.A. & Canadian models:	530—1,710 kHz (10 kHz steps)
European & Australian models:	522—1,611 kHz (9 kHz steps)
Worldwide models:	531—1,602 kHz (9 kHz steps), 530—1,710 kHz (10 kHz steps)
Usable Sensitivity:	30 µV
Image Rejection Ratio:	40 dB
IF Rejection Ratio:	40 dB
Signal-to-Noise Ratio:	40 dB
Total Harmonic Distortion:	0.7%

GENERAL

Power Supply:	AC 120 V, 60 Hz AC 230 V, 50 Hz AC 220-230 V and 120 V switchable, 50/60 Hz
Power Consumption:	6.2 A 520 W
Dimensions (W × H × D):	435 × 175 × 453 mm 17-1/8" × 6-7/8" × 17-13/16"
Weight:	
USA & Canadian models:	16.3 kg, 35.9 lbs.
Others:	17.6 kg, 38.8 lbs.

REMOTE CONTROL

Transmitter:	Infrared
Signal range:	Approx. 5 meters, 16 ft.
Power supply:	Two “AA” batteries (1.5 V × 2)

Specifications and features are subject to change without notice.

Power supply and voltage vary depending on the area in which the unit is purchased.

TX-DS676

TUNER SECTION

FM

Tuning Range:	87.5 — 108.0 MHz (50 kHz steps)
Usable Sensitivity	
Mono:	11.2 dBf, 1.0 µV (75 ohms IHF) 0.9 µV (75 ohms DIN)
Stereo:	17.2 dBf, 2.0 µV (75 ohms IHF) 23 µV (75 ohms DIN)
50 dB Quieting Sensitivity	
Mono:	17.2 dBf, 2.0 µV (75 ohms)
Stereo:	37.2 dBf, 20 µV (75 ohms)
Capture Ratio:	2.0 dB
Image Rejection Ratio	
U.S.A. & Canadian models:	40 dB
Other area models:	85 dB
IF Rejection Ratio:	90 dB
Signal-to-Noise Ratio	
Mono:	76 dB
Stereo:	70 dB
Alternate Channel Attenuation:	55 dB
Selectivity:	50 dB (DIN)
AM Suppression Ratio:	50 dB
Total Harmonic Distortion	
Mono:	0.2%
Stereo:	0.3%
Frequency Response:	30 Hz — 15 kHz, ±1.0 dB
Stereo Separation:	45 dB at 1 kHz 30 dB at 100 Hz — 10 kHz

AM

Tuning Range	
U.S.A. & Canadian models:	530—1,710 kHz (10 kHz steps)
European & Australian models:	522—1,611 kHz (9 kHz steps)
Worldwide models:	531—1,602 kHz (9 kHz steps), 530—1,710 kHz (10 kHz steps)
Usable Sensitivity:	30 µV
Image Rejection Ratio:	40 dB
IF Rejection Ratio:	40 dB
Signal-to-Noise Ratio:	40 dB
Total Harmonic Distortion:	0.7%

GENERAL

Power Supply:	AC 120 V, 60 Hz AC 230 V, 50 Hz AC 220-230 V and 120 V switchable, 50/60 Hz
Power Consumption:	5.3 A 410 W
Dimensions (W × H × D):	435 × 175 × 453 mm 17-1/8" × 6-7/8" × 17-13/16"
Weight:	
USA & Canadian models:	14.7 kg, 32.4 lbs.
Others:	15.5 kg, 34.2 lbs.

REMOTE CONTROL

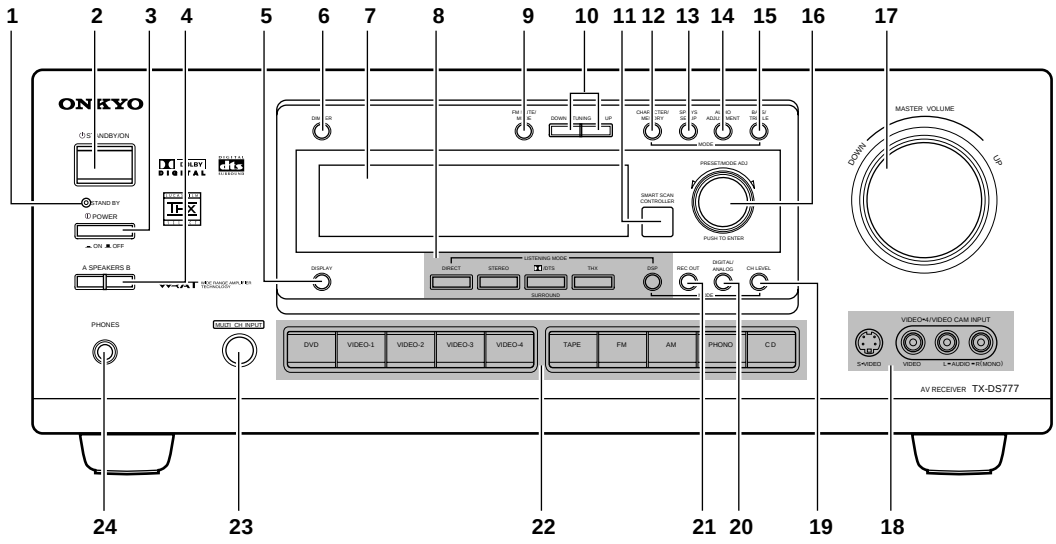
Transmitter:	Infrared
Signal range:	Approx. 5 meters, 16 ft.
Power supply:	Two “AA” batteries (1.5 V × 2)

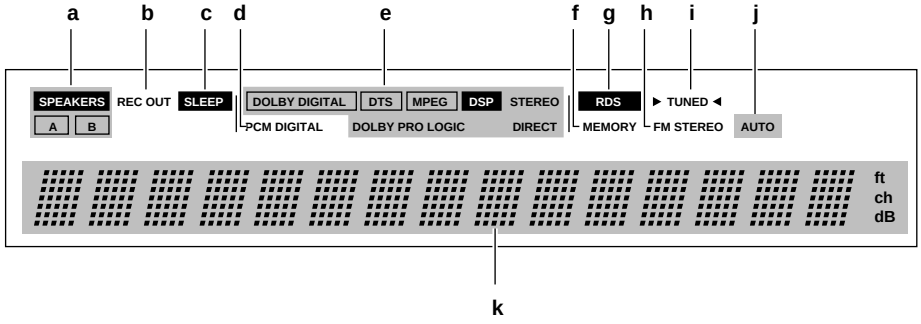
Specifications and features are subject to change without notice.

Power supply and voltage vary depending on the area in which the unit is purchased.

Control positions and names

The illustration shows the front panel of the TX-DS777 model VS. The appearance of the front panel varies depending on the model you purchased.





Front panel

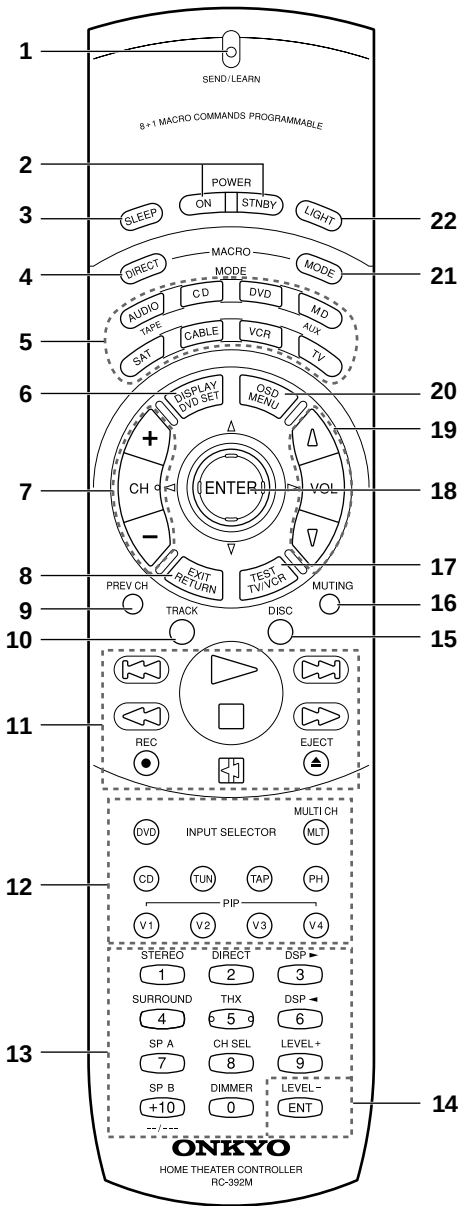
For more information about buttons or knobs, refer to the pages listed in the brackets ([ ]) below.

1. **STANDBY indicator [5, 13]**
2. **STANDBY/ON button[13]**
3. **POWER switch [13]**
4. **SPEAKERS A/B button [26, 30]**
5. **DISPLAY button [23, 30, 47]**
6. **DIMMER button (Other than European model) [26]**
   PTY/TP button (European model) [47]
7. **Display (Refer to the "Display" illustration.)**
8. **LISTENING MODE buttons [35, 36, 38]**
   The bottuns vary depending on the model you purchased.
9. **FM MUTE/MODE button [24]**
10. **TUNING UP/DOWN button [23]**
11. **Remote control sensor [5]**
12. **CHARACTER/MEMORY buttons [25, 41]**
13. **SP/SYS SETUP button [16, 18, 20~22, 40, 43]**
14. **AUDIO ADJUSTMENT button [38]**
15. **BASS/TREBLE button [31]**
16. **SMART SCAN CONTROLLER [16, 32]**
17. **MASTER VOLUME control knob [26, 35]**
18. **VIDEO-4/VIDEO CAM INPUT [8]**
19. **CH LEVEL button [42]**
20. **DIGITAL/ANALOG button [23, 28]**
21. **REC OUT button [44, 45]**
22. **INPUT SELECTOR buttons [23, 26, 32, 35]**
23. **MULTI CHANNEL INPUT button [33]**
24. **PHONES [26]**

Display

If a protective film on the surface of the screen making it difficult to read the display, remove the film.

- **a. Speakers A/B indicators**
- **b. Rec out indicator**
- **c. Sleep indicator**
- **d. PCM digital indicator**
- **e. Listening mode or Digital input format indicators**
  (The MPEG indicator appears on the European model (TX-DS777/TX-DS676) and the worldwide model (TX-DS777) only.)
- **f. Memory indicator**
- **g. RDS station received indicator (European model only)**
- **h. FM Stereo indicator**
- **i. Tuned indicators**
- **j. Auto indicator**
- **k. Multi function display**
  (Frequency and Preset station/Input selector/Sleep time/Volume level/Listening mode)



Remote controller

Using the remote controller, you can control a CD player or cassette tape deck connected to the connector of the TX-DS777/676. (See page 7 for more information.)

1. **SEND/LEARN indicator [49, 52, 53]**
2. **POWER ON/STNBY button [13, 49, 50, 54, 57]**
   Power on/Standby on
3. **SLEEP button [27, 31, 49]**
   Sleep function button
4. **MACRO DIRECT button [55, 56]**
   Macro Direct function
5. **MODE buttons [13, 27, 49~56]**
6. **DISPLAY/DVD SET button [49, 50]**
7. **CH +/– buttons [32, 49]**
8. **EXIT/RETURN button [16, 17, 50]**
9. **PREV CH button**
   [This button is not used for this receiver.]
10. **TRACK button [50]**
11. **CD/TAPE/DVD/MD operation buttons [50, 51]**
12. **Input Selector buttons [27, 32, 35, 49]**
13. **Numeric key/STEREO/DSP◄, ►/SURROUND/SPA, B/CH SEL/LEVEL+,–/DIMMER buttons [21, 27, 33, 35, 42, 49~51]**
    [The THX button are not used for the TX-DS676.]
14. **ENT button [50~53, 57]**
15. **DISC button [50]**
16. **MUTING button [31, 32, 49, 50]**
17. **TEST/TV/VCR button [49]**
18. **ENTER/cursor buttons [16, 17, 50]**
19. **VOL ∆/∆ button [27, 35, 49, 50]**
    Volume adjustment
20. **OSD/MENU button [16, 17, 50]**
21. **MACRO MODE button [54, 56]**
22. **LIGHT button [49]**

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